94 JOSEPH HAYDOCK

MELANERPES FORMICIVORUS

CHONGO HNHR

20 April 16:10 Removed some woodrat nest material from lower hole. Removed 7 eggs.

23 April 8:15-11:15 Attempted mate guarding watch. Used blind located ~50m up hill from main grainery/nest tree. Saw the following individuals.

Y/Y
red/wht(N)/M ♀1968
BK/M
Or/D-by(N) ♀2103
Or-Y/M
Or-Lt-G/Or
Dgr-BPK(N)/D-blue
M/dG-BPK(N) ♂2175
} Breeders

M/orange
?/? ♀[2322]
Mv/D-blue-wht(N)
Mv/M ♂[2326]

Started to rain about half-way through observation period. Difficult to follow BF and identify other B's w/o losing BF. — Need help w/ these watches. Paint would be very useful.

26 April Attempted mate guarding watch w/Jeremy.

9:05 started observations.

Y/Y
red-wht(N)/(M) 1968♀
BLACK/(M)
orange/Dblue-yel(N) 2103♀
} seen in grainery, but w/o male breeders.

- So apparently not mate guarding. These birds left after about 10 min. and where not seen again. During 2 hr. of observation. Did see 2♀'s and a ♂ across cañon. Also observed (in grainery tree)

* white-black/~~orange~~/Lt blue-black
white-black/~~orange~~/Lt blue-black ♀[2290] Not chased (1968♀ was in grainery tree at the same time.

11:05 End observation. Apparently not mate guarding but birds (above ♀'s) seen in grainery only for ~~total~~ of 10 min. 2290♀ good I.D.; seen well. [This bird was banding as nestling at 5 HW]

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MELANERPES FORMICIVORUS

CHONGO HNHR

27 April 13:20 Arrive to start a "mate guarding" watch w/ Walt. Have seen up to 5 birds together across cañon (Walt)
Saw Y/Y rw/m [1968] ; MAUVE/D-Blue MAUVE/m [2326] ; Unbanded ♀ ? 1.D: ♀ ?
In main storage tree. Neither breeding ♂'s - Not mate guarding 1968 at least.
14:15 End obs.
19:00 Roost watch- no birds seen to go in granary roost tree. (Walt reports they roosted across cañon)

28 April 8:00 Another attempt to watch mate guarding, again from granary tree side of cañon (west side). Unable to start observations until never because spotting scope had inside condensation (dried out in sun). Moved down slope and close enough to granary to observe w/ binoculars — (Moved blind down)
10:00 Blind set-up, ready to start observations. Where are the birds? (From upper observation point I noticed that 5 birds where in granary tree most of the time. I assume this included some if not all breeders — so they probably are mate guarding now.
19:00 Chased at least 4 birds from buckeye annex roost tree. Jeremy reports at least 3-4 birds nested in grainery tree, this years nest hole.

29 Apr Fairly successful mate guarding observation (13:45 - 16:45) done with Jeremy. Observed breeders several times. Birds stil spending much time on east side.

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MELANERPES FORMICIVORUS

CHONGO HNHR

29 April 19:00 Mark has set ambush (nest tree). My job is to scare birds from buckeye annex again. Birds don't roost in buckeye annex, but mark reports that they did not go to the nest tree w/ ambush.

30 April 8:18 - 11:18 - Another fairly successful nest guarding watch. This time with Katy. Birds never did visit any holes in tree (main granary / nest tree), making me think they are not interested in nestling - Do they really want to nest at Buckeye annex. Reset ambush to try again tonight at main granary / nest hole.

4 May 7:20 Arrive west side to check on activity levels at nest hole tree. Obs. from blind located N. of tree.
7:30 2103♀ and one other in tree ~ 1 min.
7:44 2175♂
7:50 1968♀
8:20-30 ♂ 2326 and 2103♀ together in tree; 2103♀ leaves
♂ 2326 does not follow.

5 May 14:30 8 eggs. buckeye annex tree.

① 28.0 x 19.9	④ 26.8 x 19.7	⑦ 26.7 x 20.0
② 26.6 x 19.6	⑤ 26.6 x 19.7	⑧ 26.5 x 19.6
③ 26.4 x 19.8	⑥ 28.0 x 20.2	

Walt used 20ft ladder (tied in tree) (half way up) to get to nest hole in dead branch.

18 May 10:15. Walt reports. 6 nestlings!
① Orange, 24.0 ② blk white (N) 19.0

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MELANERPES FORMICIVORUS

HNH2R

CHONGO

18 May Continued.

③ Yellow, 23.0 ④ Red, 18.1

⑤ D blue, 22.4 ⑥ NOBA 9.8

13 July 1:00 Checked trees on both sides of cañon — nobody seen in a hole. Some stores remaining in granary on west side of cañon.

1995

April 2 18:45 — Roost watch w/ Jim, Pete. Jim Pete watch on E side of cañon — report that I ~~did~~ go over to W. side (granary tree) & see bird looking out of upper roost hole when I arrive.

April 3 16:03 — Checked cavity for eggs (Burkey side) Nothing in hole, but looks good. Set ambush at granery tree, (upper underneath hole. ~~Set~~ on limb facing cañon). Checked both cavities on underside of this branch for eggs — none. Observed one bird go to roost in hole w/ ambush.

April 4 4:45 — Pulled ambush — nothing seems to be in hole (heard nothing fly from lower hole). Climbed up and checked to find nobody!! I ~~do~~ have no idea where the bird that went in last night went.

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MELANERPES FORMICIVORUS

CHONGO HNHR

10 April 15:00 Arrive to attempt to set ambush at tree on buckeye side of canon. They roosted in hole on limb facing canon. (new hole, not in dead limb) (April 8th, & Peter obs.). I Made it most of the way up this branch, but it seemed a bit too close to dead to risk venturing further out - Possible that hole could be blocked & by climbing adjacent tree and using pole w/ plugging device or end!

24 April 13:30 2 eggs. Measured (1) 26.6 x 19.8. Early Incubation (1-3d).

6 May 9:00 - 5 nestlings, 1 egg (removed) (would not have hatched) largest nestling: 16g. 2 of 5 nestlings probably will not make it.

23 MAY 8:30 - Nest ambush attempt. Want to catch 1968 BF and 2103 BF for blood/DNA sample. Yes! - Caught 1968 / took blood/DNA sample. Checked ultracold - have unused 1992 sample for #2103 - So no need to get this individual.

25 MAY 8:30 - Banded/bled 3 nestlings.

2606: white/M / black-yellow/black-yellow

2607: L-green/L-green / M/L green-L blue

2608: Mauve-orange/Mauve orange / Orange/M

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MELANERPES FORMICIVORUS

HNHR

CHONGO

26 MAY — 7:30 - Arrived to capture unbanded adults. Apparently there is only a pair here (As per nest watch by Jure) Caught B♂ (#2853.)

27 MAY — 6:45 - Arrive to find tree covered - yes covered with ants, including all around entry hole to nest. I presumb nest was destroyed by ants after I caught the B♂ and he was not there for a while to defend the nest. (There have always been a lot of ants in this tree). Too many ants on tree for me to want to climb up and check nest. - Perhaps returning early in the morning would make checking the nest possible.

6 June — 8:30 - Banded and Bled 3 very small 2/day old nestlings. #2879-2881

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MELANERPES FORMICIVORUS

BUCKEYE — HNHR

13 July — 1:30 Checked holes in 3 trees (near platform, up hill from platform and to South). Nobody seen in a hole. Some stores remaining.

4 Aug — 19:30 Roost watch—at least 3 birds roost in Buckeye tree. ~~two~~ in small hole on N side of tree, the other in hole with ambush.

8 Aug — 16:30 ~~reset~~ Walt reset ambush in dead tree; set pole in alternate hole (N side of tree) to prevent them from entering.
19:30— Two birds seen going into hole w/ ambush.

9 Aug — 4:45.- Walt reports 2 birds in hole.
Caught 2173 and 2091

1995

April 2 — 18:40 – checked holes in big dead tree – Nobody seen looking out.

April 10 — 16:30 checked holes in granary tree and upper roost tree. No birds seen. Lots of acorns in granary tree.

April 13 — 19:30 Roost watch with Jim. Jim saw 1 bird roost in granary tree. (NE side) I observed tree up hill from granary tree. Several birds in area at roost time. None seen to enter either hole in tree. Possible that there is a hole they used in ~~tree~~ tree just below this (very large valley oak)

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MELANERPES FORMICIVORUS

BUCKEYE HNHR

April 26 16:30 Set ambush at tree above granary.

April 27 5:00 - Caught 2 birds. 2565, 2091. Other birds in group may have roosted in granary tree.

April 30 19:30 - Roost watch—Unable to determine where they roosted.

10 MAY 19:45 — Roost watch - Birds again seen heading downhill, to SW of granary tree - Could not find hole.

12 May 20:00 - Roost watch. Walts reports that ~5 birds roosted at buckeye "annex". Could they be buckeye birds or are they chongo??

23 MAY 20:00 - Yet another roost watch. Some birds roosted in new hole in granary tree; top of limb that points (more or less) towards Hastings' houses.

5 JUNE 20:00 - Roost watch. I checked buckeye annex tree first (about 25 min prior to roost time) and saw 3 birds fly from hole (last years Chongo nest). Returned to Buckeye granary tree to watch roosting. Saw 4-6 birds roost in this tree. 3-4 roosted in new hole that faces HASTINGS buildings; Another 2-3 roosted in hole at end of branch that points uphill. - So bird at buckeye annex tree could be either Chongo birds or buckeye birds that decided to roost in their granary tree.

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BUCKEYE HNHR

22 April 10:10 - No birds seen anywhere.

18 MAY 15:20 - Banded and bled 3 healthy happy nestlings!
#2826-2828

1998

7 MAY 14:00 - Can hear very small babies (<3d old)
No bird seen. Lower hole in nest tree above granary.

9 MAY 14:30 - 4 babies; largest 14.5 g. (so hatched on about 6 MAY). One baby about 8 g; the others about the size of the largest.

16 MAY 17:30 - Moved baby ID 2974 from cavity to here. 3 other healthy babies in nest - All about the same size as cavity baby. Cavity bird has a D-blue-White band on its right leg.

30 MAY 9:40 - Banded 4 babies. Acorns stores remaining.

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BUCKEYE — HASTINGS

26 MAY — 7:15 - No birds seen in a hole or anywhere else in territory

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2000

19 MARCH — 11:00 - Lots of acorns remaining. Granary about 75% full. No evidence of a nest. Also, checked BUCKEYE ANNEX - No birds seen. Took ladder back to Lab.

3 MAY — 11:10 - Bird in hole. Upper most tree, lowest hole. Flicker seen in upper most hole at BUCKEYE Annex

3 MAY — 12:50 - 4 eggs - fresh (day 1-2 of incubation)
① 26.3 x 20.1

14 MAY — 12:20 - 4 babies. All healthy. 18.9, 18.1, 17.8, 10.9, Hatched on ~ 10 MAY.

2 JUN — 8:15 - Banded the 4 babies. Lots of acorns remaining in granary

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MELANERPES FORMICIVORUS

PLAQUE — HNHR

Aug 30 — 19:00 - Roost watch. 1 bird goes into higher hole on south side of tree located to the north of the Lab.

1995

April 2 — 18:30 - Checked last years nest hole - Nobody looking out.

MAY 2 — 13:00 - Checked upper/lower hole in roost by old barn. Did not open lower hole, but could not see any eggs with peeper. (Pete reported bird in this hole yesterday.)

MAY 23 — 20:00 - See bird in lower hole in roost by barn, as I am going up to do roost watch at buckeye.

5 JUNE — 20:00 See bird in upper & lower hole in roost by barn. (as I went to buckeye roost)

MELANERPES FORMICIVORUS

PLAQUE HNHR

MAY 16 19:00 - Checked to see if they hatched - yes - hear nestlings; saw several birds around site

MAY 21 13:00 - Set-up ambush (ball in place for last week) to attempt catching of breeder males for painting. They have 4 healthy looking nestlings.
Caught # 2428 - took blood, plasma, painted him green.
15:00 - Ended attempt at capturing males

MAY 22 9:10 - Set ambush again to catch more males for painting.
Caught #1757 - took blood, plasma; painted him browns.
14:30 - Caught 2056 - blood, painted him blue
Removed all 4 nestlings to force another nesting attempt (hopefully). Nestlings placed in foster nests - 2 at LAMBERT and 2 at LA2.
This group is interesting for mate guarding observations because there are at least 3 breeding males (possibly 6) and they are a group of co-breeders composed of a fathers with his sons of varying ages.

MAY 25 8:00 - Preliminary observations for mate guarding to get familiar with birds - Observed for 1 hr and only saw 4 birds — The breeder female # and the 3 painted males. Brown - # 1757 Green - # 2428 and Blue - # 2056. All birds fly catching in "PLAQUE" tree. Difficult to tell if mate guarding yet - but they were together all the time.

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MELANERPES FORMICIVORUS

PLAQUE HNHR

MAY 26 8:25 → MATE GUARDING OBS. ON TAPE.

MAY 27 8:40 → MORE MATE GUARDING OBS ON TAPE ON THIS MISTY FOGY MORNING (HENCE the late start)

JUNE 5 5:45 - More mate guarding obs.

6:15 - They don't seem to be mate guarding at all now - ending obs.

10:15 - Checked nest - Yes! - 4 eggs now!

Measured 1 egg: 26.2 x 22.5 mm.

JUNE 12 9:00 - still 4 eggs. They all look good - nice and warm too!

JUNE 17 9:30 - 4 babies! 10.5, 10, 8.5 and 4.5 g.

Sept 6 14:30 - 2 eggs; 1 looks incubated, so complete?

① 27.0 x 19.75

Sept 14 9:00 - No eggs remaining.

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MELANERPES FORMICIVORUS

PLAQUE — HN HR

8 April 13:00 - Set ambush to catch ♂♂'s for painting. I hope to do mate-guarding obs. on this group after removing the 1 nestling they now have, thereby forcing a renesting attempt.

Caught 2428 ↳ replaced L-Pink bands w/ L pink-Black
RED / L-Pink-black / RED / LL-Pink-Black painted green

9 April 13:15 - Caught 2056 painted him blue
Removed nestling and placed it in Cavities nest. placed split red-black band on left leg.
Took a little bit of blood. Bird # ⇒ 2744

24th

22 April 9:50 - Bird in hole - Same hole as previous nest that nestling was removed from

13:30 - Checked nest - 6 eggs, including 1 runt egg.
① 20.15 x 15.3 ② 24.8 x 20.5

4 MAY 14:30 - 3 babies 18-23g; 3 eggs (including runt) removed from nest. All 3 eggs seem to have not developed at all.

July 6 16:30 - 5 big nestlings. Largest one 57g
~~July~~ 6 smallest one 36 g. All look healthy.

July 15 14:00 - Banded 5 nestlings 41-67g, but healthy
#'s 2934-2938.

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	CAVITY	HN/HR
9 April	17:30. Transferred plague nestling into group to force a renest by plague. Cavity now has 4 babies	
20 April	10:00- Removed all 4 nestlings and replaced them with eggs to attempt to make the 9B egg toss. (for National Geographic film crew). Took blood samples from the 4 nestlings. Returned them to nest after ~1.5hrs.	
10 July	7:15- 3 babies- 58-37g. All look healthy. Same hole as 1st nest.	
16 July	13:30- Banded 3 nestlings 54-64g look healthy #'s 2939-2941	

1998

6 MAY	11:15- 4 eggs, well incubated.	(LED 11/19)
16 MAY	16:20- Removed 2 babies to force renest. #2973 ~ 30 g; Red-L-blue- Moved to Stromberg. #2974 ~ 30 g; D-blue-white- Moved to Burkeye. No eggs remaining in nest.	

1999

6 April	9:25 - No birds seen. No evidence of a nest
21 May	12:00 - Banded & bled 3 babies with Deborah #3066-3068

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MELANERPES FORMICIVORUS

KNOLL — HNHR

17 June — 12:30 Banded / bled 4 nestlings with Walt.

1995

11 MAY — 20:00 - Roost watch. Some ind's roosted in Agave; others may have roosted across field towards school hill.

20 Sept. — 9:20 - Saw 1 individual land in tree by barn. A few new acorns in barn granary; none in granary trees accross road.

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MELANERPES FORMICIVORUS

KNOLL HNHR

22 April 14:15- 1egg! In newnest hole in locust tree by lower barn.

23 April 11:00 2eggs -(marked) #'d

24 April 11:30 3eggs

25 April 10:15 4eggs

26 April 10:30 5eggs

27 April 11:00 - 5eggs - So final clutch size

① 25.85x18.9 ② 27.15x19.75

③ 27.4x19.9 ④ 27.0x19.4 ⑤ 27.0x19.0

7 MAY 10:15- 2 babies + 1 hatching. The 2 babies are from eggs #2 and #3. Egg #1 is hatching. Put green paint on one (foot) baby, black (foot) on other. Marked egg tooth w green paint on baby that was hatching.

9 MAY 10:30- 3 babies, Just left them painted as they were - i.e. with green paint on hatching tooth of one baby.

12 MAY 10:45- placed hatchling bands on babies

Lt green on green foot baby (left leg)

Black on black foot baby (left leg)

-No band on last baby.

28 MAY 14:00- Banded 3 babies #2861-2863.

3 July 10:30- It's a 2nd nest! - 4eggs - well incubated.

6 July 10:15 - 1 baby - 13 grams. 3eggs.

9 July 10:30 - Still just one baby. 3eggs (removed).

24 July 12:30- Banded the baby - #2944.

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MELANERPES FORMICIVORUS

KNOLL — HNHR

21 JUNE 9:30 Banded 3 babies #3035-3037. Some acorns remaining.

1999

6 April 9:30 - No birds seen; No evidence of nest.

19 MAY 10:10 - Walt checked nest to see if they have hatched. Nest is empty!!

3 June 13:50 - Joey climbed tree, 5 eggs ① 27.5 x 19.9 ② 28.3 x 20.4, incubated, probably hatch in 4 or 5 days.

~~30~~ 1 July 8:30 - Banded 3 healthy nestlings with Walt. Plenty of acorns remaining in barn.

2000

19 MARCH 12:02 - Lots of acorns, both in barn and locust tree to east of barn. Saw 3 birds, including a ♀ with a red-dark band on her left leg [2333]

5 April 9:10 - No evidence of nesting yet. Several birds seen in locust trees by barn

11 April 10:15 - Male guarding, but no bird seen in a hole

19 April 10:10 - Bird in new hole in locust on Sw side of barn, located ~18ft above ground in 4ft (broken off) limb.

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MELANERPES FORMICIVORUS

REFUTE I — HNHR

April 12 — Checked new cavity - Nobody answered "hello" (Also checked old cavity same tree — no birds) Above done on tour w/ Walt K.

April 17 — 7:34 Checked cavities - 2 birds left tree as I approached ~~No ans~~. No answer to "hello". Some stores remaining

April 21 — 8:20 Bird in hole (?) (left tree at hole height as I walk around) One other ind. in tree. In branch facing down Canon, hole faces SW.

10 May — 12:30 Nest tacked - no eggs or nestlings

12 May — 9:30 2 bird flew from tree - but I did not see anybody fly from a hole. Climbed up and found 2 eggs! A new nest??

14 May — 11:30 4 eggs now!

① 24.0 x 19.2 ③ 25.0 x 19.8

② 23.9 x 19.7 ④ 24.1 x 18.8

14 August — 8:10 - Checked holes, nobody seen, no stores of acorns remain in this years nest tree.

1995

1 April — 9:10 - Checked holes - Saw nobody.

18 April — 12:00. Nobody seen in a hole.

23 April — 2:30. 5 eggs, 2 developing; 3 no development

Measured 1 egg: 25.6 x 20.1

28 April — (PM) 5 eggs - checked by Walt; Bird in hole.

5 May — 11:00 - ~~3 nestlings, 1 egg (bad), 1 nestling dead~~

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REFUTE 1 HNHR

5 MAY. 12:00 - 3 babies, 2 eggs (will not hatch). Weighed one baby: 26g. (~ d old). Bird in hole when ~~me~~ arrived.

23 MAY 12:30 - Banded / bled 3 nestlings with Walt.

2595: white / D-blue / M / L blue

2596: red-white(N) / M / orange-green / white.

2597: black / D-blue yellow(N) / DBlue-yellow(N) / M

24 JUNE 9:10 - Adult ♂ in this years nest hole. Another bird flew from granary tree.

26 JUNE 9:15 - checked nest. 4 nestlings, ~~25g~~ 27g - (largest nestling)

7 July 12:30 - 4 nestlings banded / bled w/ Walt. A few acorns remaining in granary ~~tree~~

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MELANERPES FORMICIVORUS

REFUTE 1 — HNHR

2 April. 3:40 - Saw 2 birds, but nobody in a hole.

12 April 9:55 - checked group to see if HAY-Bloom female is still hanging out here - Female seen - Plus at least 2 males. - Possibly nesting - Very interested in hole located ~2 feet below ~~date~~ nest hole from previous year that faces down cañon.

12 April 10:55 - Open hole - more less complete, but nothing inside.

16 April 13:00 - started obs from blind to see if birds have started MATE-GUARDING

14:30 - End obs. Never saw a bird.

12 August 6:15 - Saw 3 birds. Nobody seen in a hole. No new acorns yet.

5 Sept 7:30 - No birds seen.

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CECN
~~REFUTE~~ HNHR

13 April — 7:00 Found 4 dead babies, 3 in nest, one on ground. They probably died because they were not brooded O/N. Walt scared bird from hole during roost watch to determine which male was incubating.

26 April — 15:00 - They have a new nest in a new hole in their traditional tree (North side) opened and found 3 fresh eggs.

1 MAY — 11:00 - 6 eggs now; bird in hole when I arrived. (1) 25.65 x 19.3

16 MAY — 14:30 - 5 healthy babies; no eggs, so likely that all hatched and 1 baby did not make it. Largest baby 32g.

11 July — 8:50 - Bird in hole and I can hear small babies. Same hole as first nest (failed). 2nd successful nest

14 July — 10:45 - 2 babies about the same size, Larger (slightly) is 44g.

24 July — 11:00 - Banded 2 nestlings - One very small (40g) the other about normal size (74g) # 2942-2943

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CENTRAL CANYON — HNHR

MAY 3 — 15:25 Bird in hole - granary tree, new hole.

MAY 6 — 11:45 Bird in hole - granary tree. North side of tree 4 Eggs ① 24.55 x 19.85 ; Early incubation. ② 25.30 x 20.30

1 JUNE — 13:10 - 2 babies banded. #3015 and 3016 Some acorns remaining

1999

28 April — 9:40 Walt opened new hole in central Canyon traditional tree - Hole faces blue pond and is north facing tree branch. ① 25.9 x 19.6 ② 24.8 x 18.8 5 eggs - Early incubation. Acorns remaining

28 June — 6:20 - No evidence of a second nest. Some acorns remaining.

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MECHANERPES FORMICIVORUS

CENTRAL CANYON — HWHR

20 MARCH — 13:40 - Plenty of acorns remaining (80% full) No birds seen; no evidence of a nest.

5 April — 11:47 - 4 birds seen in granary as I approached. Crow in granary as well - ACW's attempting to make the crow leave. No evidence of a nest.

4 MAY — 12:20 - Banded 3 healthy nestlings with Walt. Acorns remaining in granary.

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MELANERPES FORMICIVORUS

1500 HNHR

19 April 16:42 Woodpeckers in tree - did not see any in nest hole. Stores remaining.

10 May 9:30 - 3 nestlings (NOT MARKED)
20g, 20.5g, 21g.

14 June 11:40 - Checked holes in main nest tree - nobody seen. Some acorns remaining

23 June 11:00 - Checked holes in main nest tree - nobody seen

30 June 11:50 checked holes again - hello ?? - nobody.

1995

1 April 11:35 - Plenty of stores. Saw no birds.

17 April 11:40 - Checked holes - nobody seen.

23 April 17:00 - Decided to try removal experiment in this group. Will be removing ♀ - to promote replacement and to creat group with co-breeding ♂'s. After climbing tree to set ambush, I discover 1 egg (unincubated) and decide not to set ambush. After talking with Walt, we decide to delay removal. Part of the problem is that Jim reported 6 birds roosted here last night (1 more than on field list) so we are not completely sure what group composition is. Jim will observe tomorrow to determine: ① if female lays another egg ② identity of all birds in group

24 April 10:30 - 3 eggs, cool. Set ambush for catching ♀ when she enters nest tomorrow after egg laying.

ETH

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150 o HNHIZ

25 April 12:00 - Decided to delay capturing female until several days from now.

1 MAY 10:00 - Arrive to attempt captural of BF (1609) for removal experiment / to produce group with co-breedings ♂♂. 2473 - enters hole / incubates several times. ♀ enters. - probably 2472 - Capture 2472, take blood; paint with blue. 1609 Never entered.

17:00 - End attempt to capture 1609. Checked nest - 4 eggs

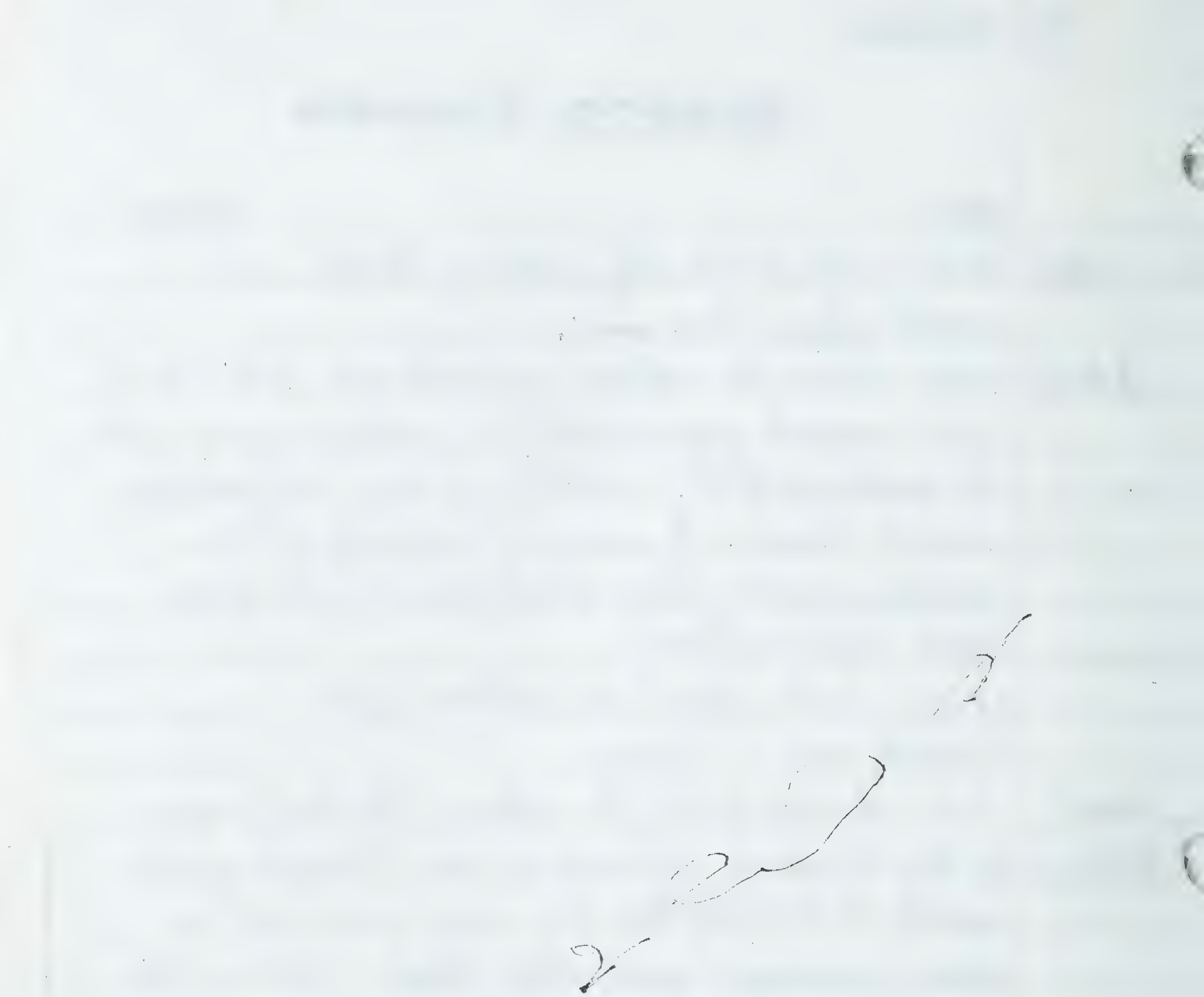
6 MAY 3:40 - Arrive to try to capture BF (1609) again.

8 May 11:30 - Arrive to observe power struggle. Walt reports 3 WGATE ♀'s H's are here - Not in main granary (~~next~~ Adj. ~~tree~~). Both SHIL and West gate helper females have been seen. (See Walts notes). (SHIL in granary)

12:15 - I move to observe & attempt to ID birds in tree along stream located about 40m downhill from granary. Little activity in this tree; there is a bird here, but I have not been able to identify it.

1:00 - SHIL birds still in control of granary observe L blue-O / Orange-L-blue [L 2380]

2:20 - The situation is the same as early today. SHIL ♀'s have main granary tree. Identified 6 of 8 helper ♀'s from that group. (see SHIL list) Possible that all 8 are here. WGAT ♀'s (3) are



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MELANERPES FORMICIVORUS

1500 HNHR

8 MAY (continued) are in trees to N. of granary tree; they occasionally make an attempt to reach the granary, but are chased immediatly.
2:35 - Took down net for catching power struggle birds (Caught HO earlier; Walts Noles)

1996 1996

2 April 13:05 - 3 birds seen in main roost tree. No acorns. Big nest cavity still with bees. Possible cavity/hole 3 feet beneath this cavity is in use; but no birds seen in a hole.

18 April 14:30 - Placed 2 feeders on territory - 1500 is paired with Knoll, which does not have feeders).

19 April 12:00 - Took down feeders. because 1500 is a group that Joshua is using for acorn preference. Knoll is now the supplemented group for this pair. and 1500 is the control non-supplemented group.

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MELANERPES FORMICIVORUS

HAJHR

1500

16 April 10:30 - 4 babies that look like they just hatched
Largest one only 4.5g! All look fairly healthy.

9 June 1:00 - Walt checked traditional nest hole (bird was in hole)
Finds 4 eggs. Fairly fresh (not more than 2 days incuba.)
① 23.6 x 19.5 ② 23.8 x 19.6

20 June 7:30 - 4 babies 4-7g. Bird in hole when I arrived.

9 July 9:30 - 1 baby banded #2920. Acorns remaining.

1998

15 MAY 9:50 - ♀ in hole in traditional nest tree, but new hole. Located on lower horizontal branch that points towards central canyon.
13:30 - Walt opened hole. Finds 4 eggs.
Hole very deep. Incubated about 2 eggs.
① 24.5 x 20.4

1 JUNE 12:50 - Walt checked; found 2 babies about 8 days old. Lots of acorns remaining.

15 JUNE 16:40 - Banded 2 babies 3032 and 3033
Plenty of acorns remaining.

1999

6 April 9:35 - No birds seen; No evidence of a nest.

19 MAY 13:00 - Checked nest hole from last year - 5 eggs!! Fresh
① 25.2 x 19.6 ② 25.0 x 20.2

20 MAY 13:25 - Checked nest again. Still 5 eggs.

31 May - 4 babies hatched; 10g hatched 30 May, still one egg

19 June

MELANERPES FORMICIVOROUS

1800 HNHR

11 April 8:45 Ct-blue/orange-green (2 / ?) plus one other seen foraging in big oak at edge of field.

19 April 16:20 Stores remaining. No birds seen in cavities.

10 May 10:15 2 nestling, 1 unhatched, good egg, 2 infertile eggs
Nestling weights 4.5g, 6.5g (NOT marked)

14 June 11:45 - Checked holes for renesting — nobody seen
Plenty of stores remaining

30 June 11:45 - Checked holes again for renesting - nobody seen

5 Aug 19:20 Roost watch. Bird in hole, (2nd nest). I watch 1800's main granary tree (1st nest) while Mary watches below at 2nd nest. 2+ birds ~~go~~ roost in my tree in this years 1st nest. Mary reports bird left hole in lower tree; no others birds seen entering hole.

6 Aug 18:00 - Set ambush on 1st nest hole
19:20 - Did not see anyone roost in hole — Bird in hole of 2nd nest.

7 Aug 9:30 - Tied ambush in place. Will try again in a couple of days.

9 Aug 18:30 Set ambush for another attempt.
19:30 - 1 bird (?) went into hole. Mary reports that they wanted to go to their lower nest hole - she scared them away.

10 Aug 4:30 - Ambush failed — no bird in hole and string broke anyway. -yuck.

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Melanerpes formicivorus

1800 HNHR

19 Aug 17:00 Set ambush a lower nest hole.
19:15 - Mary reports 6 birds go to roost in this hole.
20 Aug 5:15 - Ambush successful - caught 6 birds!! including 2 NOBA juveniles:
2559: dgreen-Red (N) / white M972-16027 / ORANGE, 2560 RED-D-BLUE / 972-16028 YELLOW / YELLOW
770, 787, 1851, 2560
At least 1 bird did not roost in hole (heard at dawn and saw bird fly into forest (above lower nest tree) previous night. So there are at least 7 birds still in group.

1995

1 April 11:30 - Plenty of stores remaining. Saw no birds in a hole - but one left from near last years early nest.
17 April 10:45 - checked holes Nobody seen
27 April (pm) Checked holes - Nobody seen.
1 May (pm) checked holes - Nobody seen.

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MELANERPES FORMICIVORUS

1800 HNHR

2 April 1:10 - One bird seen in main roost/granary tree. Lots of acorns. Nobody seen in a hole.

9 April 13:00 - Placed 2 feeders in main granary tree. Paired group (not supplemented) is School Hill. Both feeders filled to top before putting in place. (Paired with School Hill as non-supplemental control)

10 MAY 10:15 - 3 eggs - fresh ø25.8 X 18.75

15 MAY 8:45 - Still just 3 eggs. Incubated.

23 MAY 13:00 - 2 babies; 23g, 17g. No eggs remaining.

11 JUNE 14:45 - Banded 2 healthy and big babies. Perhaps they are big and healthy because they are being supplemented with dog food. They also still have some acorns remaining.

19 AUGUST 16:29 - 3 eggs. Mid incubation. = 26.2 x 18.25

23 August - all gone.

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MELANERPES FORMICIVORUS

1800 HNHR

16 April 15:00 checked holes for birds, nobody seen - lots of acorns.

19 MAY 11:00 - One baby just hatched, one egg w/o development one egg that might hatch soon.

9 JUNE 12:30 Banded 1 healthy nestling, with waff. #2891

9 July 10:05 - Bird in nest hole of this year. Acorns remaining in granary. Walt checked hole and found.
♀ 2 eggs ① 25.5 x 18.4. ② 24.8 x 17.6.
Fairly fresh; could still be laying.

15 July 10:30 - Still just 2 eggs.

22 July 11:30 - One baby just hatched. - check again.

1998

15 MAY 10:15 - No birds seen in a hole. Plenty of acorns remaining

~~1 JUNE 12:50 - Waff feeds, finds 2 babies about 8 days old.~~

5 JUNE 11:00 - 3 eggs - fresh / not incubated. One is a runt egg ① 18.2 * 14.7 ; other 2 normal ② 25.1 x 18.1

15 June 11:00 - Nothing left. Nest prob. failed in egg stage. Eggs infertile? (No breeding male here, so insist or outside mating would have to have occurred.

24 JUNE 12:50. Bird in hole - traditional nest hole

6 July 13:40 - It's a nest! One baby ♀, 2 eggs normal + ① 19.9 x 15.1 ② 25.9 x 20.25 1 runt egg.
Baby hatched today. Acorns remaining.

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MELANERPES FORMICIVORUS

HORSETAIL HNHR

1995 3 MAY 12:30 - Bird in hole. (opened by Walt ~ 1 week ago).
Checked - nothing in hole.

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MELANERPES FORMICIVORUS

HAY-BLOM HNHR

11 April 9:50 start Observations.

orange/d-blue (?!?) seen in main granary

Unbanded & seen with another(?); Both leave after being in short chase. Not sure who was chasing

(METAL) orange/lt-blue (?:??) Saw briefly – ID problematic. This bird was chased by ??

lt-blue/m (?!?) In main granary; eats acorn; observed for about 10 min; leaves; followed by ?? – These birds are difficult to watch because it is difficult to ID individuals. They don't hope around nearly as much as do wrens, so glimpses of both legs are rare.

Activity has shifted to trees farther down hill (about 50m below fence line) I can't see these trees very well; I will move closer.

lt-blue/m
yellow/by-
orange/d-blue
?/m
mauve-yellow/white
>!> } All three seen in tree 50m from fence

* orange/orange-dark
metal/orange-dark } Not on list, who is this??
order(?)
INTRUDER [~~9218~~] [92218 WGAT]

This bird chased briefly by ??, but later returned to tree w/ breeding female/un molested

12:00 End observation.

12 April 11:05 – Plenty of stores remain. Saw some inds. fly-catching in tree above main granary. No birds in cavities(s) – bat cavity in upper tree above fence line still looks good for resting.

19 April 16:50 – Plenty of stores. No birds in cavities.

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MELANERPES FORMICIVORUS

HAY-BLOM | HNHR

30 April — 14:30 check holes - no body seen in a hole.

4 May — 12:00 6 eggs - fairly fresh. - (several days under incubation)

1 27.8×19.2 | 3 27.7×18.9 | 5 27.7×18.9

2 26.6×19.4 | 4 27.3×18.4 | 6 26.2×192

13 May — 8:15 Still 6 eggs - 1 bad, 1 piped 4 others good.
Bad egg removed (to see if ~~[illegible]~~ DNA can be obtained.)

16 May — 8:45 4 babies. 1 egg shell.

① 11.0g | ③ 9.0g

② 10.5g | ④ 7.5g

Did not put bands on birds - too small.

14 June — 11:30 - Checked holes - nobody seen - Some stores remaining

30 June — 11:30 - Checked several holes - hello? - Nobody seen

14 Aug — 10:30 - Checked holes - nobody seen. A few acorn stores remaining.

1995

1 April — 11:20 - Some stores. Saw nobody in a hole.

7 April — 10:50 - Checked holes - Nobody seen.

27 April — (pm) Checked holes - Nobody seen in a hole. Saw 4 birds in tree below granary tree.

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MELANERPES FORMICIVORUS

HAY-BLOM HNHR

2 APRIL 1:25- No birds seen at upper tree (above fence).
No acorns in upper tree.

10 April 1:45 - No bird seen in upper tree hole.

12 Apr.! 9:10- started obs. to see if UNB ♀ is present.
9:50- ENDED obs. Nobody seen. Checked acorns —
Basically none - only shells, but possibly a few (very few)
good acorns.

19 April 13:00 - checked holes - Nobody seen.
14:00 - Placed 2 feeders in main granary tree.
(Refute 1 is paired control group - non supplemented)

13 MAY 8:00 - Power struggle going on. Set mist net
to try to catch some of them.
11:00
Caught 2 birds thus far - # 2529 from knoll
and # 2218 from W gate)

Also saw:
2 split bands with light green and white flash color
Dblue / M (2348)

IF 2348 - she was in intruder at CU x
powerstruggle

14 MAY. 4:30 - Arrived to help Walt with ambush. At least
one bird in hole, but cavity is too big and deep
(at least 3 feet deep) to reach bottom. So we
wait for birds to come out into net bag. And wait -
Bird comes out! - but goes back in hole as soon as we
approach. Walts set Ambush back to close hole after
bird comes out - No luck - We gave up after 4½ hrs.
(NOTE: Ambush idea was set to try to catch ♂'s foraging, so
that mate guarding observations can be done.

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MELANERPES FORMICIVORUS

HAY-BLOM HN HR

Aug 12 8:55 - Checked several holes - Nobody seen.

1997

4 April 11:10 - Arrived to observe for mate guarding. Never got a very good look at the birds - they are spending most of their time down fairly far towards cabin.

20 April 12:30 - Checked various holes - No birds seen.

19 MAY 8:15 - 5 nestlings (I think - hard to count because I could barely get my hand in entrance door) Managed to get one out somehow - He weighed 18 g.
No eggs remaining. (for sure - I could reach bottom of hole)

9 JUNE 12:00 - Banded and Bled 4 healthy nestlings w/ Walt

10 July 8:20 - No evidence of a nest. Some acorns remaining in main granary.

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MELANERPES FORMICIVORUS

LOWER HAYSTACK — HNHR

12 April — 10:50 - location pointed out to me by Walter.
12:30 Returned with Mark S. and Jenni to look at nestlings - Four nestlings 1 egg (infertile) Smallest nestling removed by Mark - taken to aviary.

16 May — 9:25 Opened hole found 1 juvenile - #
Ran down to bob to take blood at 9:44.
No eggs in hole.
10:30 released #

19 June — 12:00 3 nestlings!
① Blue 34g ③ RED 31.0g
② White 29.5

14 Aug — 10:15 - Nobody seen in a hole, took fallen rope ladder,

1995

April 11 — 11:25 - Saw one bird; nobody in a hole. Lots of stones
Apr. 17 — 11:00 - 7 eggs?? - counted wrong - Walt counted 6; warm, measured 1 egg: 25.3x20.3
April 20 — 12:00 - 4 nestlings, (largest ~25-30g, did not weigh) 1 addled egg, one fully developed broken open. took both eggs.

10 MAY — 13:00 - Banded/bled 4 nestlings with Jim
#'s 2575 - 2778.

9 JUNE — 14:00 - Banded/bled 6 nestlings with Peter.
2655 - 2660 - Lots of acorns remaining.

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MELANERPES FORMICIVORUS

LOWER HAYSTACK HNHR

APRIL 2 1:30- Male bird in upper hole, last years nest. Checked cavity, but no eggs. Slightly damp inside, but otherwise looks good.

10 April -1:30 - Checked last years nesthole. Nobody seen. Very few acorns remaining.

19 April 13:30 - checked main nest hole - Nobody seen looking out.

24 April 11:00 - Checked main nest hole and looked around at other trees for more holes. No body seen in a hole. I saw 2 birds fly from tree located uphill from main nest tree (towards 1800/ hay-blom)

14 MAY 6:00 - Bird in main nest tree hole again. Will checked later today - Nothing inside.

21 MAY 10:00 - 4 eggs now! bird in hole. Incubated, but still look fresh.

27 MAY 14:40 - Bird in hole. Measured 2 eggs:
27.2 × 20.1, 25.4 × 20.0

3 JUNE 13:20 - 3 babies: 26, 22.5 and 22 g.
All look healthy. No eggs remaining.

12 August 8:45 - Heard some birds on the gazebo side of Lowerhaystack. Nobody seen in a hole. No new acorns in granary

11 September 09:56 - No nest in hole. Dead bird on ground (very decayed) mauve & green black metal
Died in nest.

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MELANERPES FORMICIVORUS

LOWER HAYSTACK HNHR

APRIL 3 8:45 - Two birds flew from nest tree. checked cavity - no eggs, but ready for eggs.

April 4 5:30 - Arrive to attempt male guarding observation.

5 birds seen. So is there a power struggle?

MALE / INACTIVE = (2363)(Bm)

/

/ YELLOW (1521) (Bm)

Unb. (5406)

Birds that were being chased have left, so apparently they were just intruding temporarily.

9:02 - Started male-guarding observation.

10:32 - Ended. Difficult to obs. only were able to obtain 3 - Attendance samples and 1 fly & follow. Female left and males did not follow, so it is unclear if they are in fact male guarding.

17 April 11:27: 5 fresh eggs. Bird in hole. @ 23.9 x 19.4

29 April 13:30 5 babies - all look fairly healthy. Also BO 1521 stayed on nest when I climbed up tree, so I caught him. Added 2 new bands and gave him a bit of war paint on his face.

19 MAY 9:15 - Banded and Bled 5 healthy babies #2832-2836.

10 July 8:25 - No evidence of a new nest. Some acorns in nest tree / granary.

MELANERPES FORMICIVORUS

BLOOMONE, HNHR

April 12. Checked several cavity - nobody answered. (Above done on tour w/ Walt.)

Removed starling box (2) from territory.

17 April 7:30 Checked several cavities - nobody answered

21 April 8:30 Checked cavities in several trees. Nobody seen in holes. birds seen in southern most tree.

12 May 9:15 Checked several cavities - No body seen in a hole Birds seen in central part of territory.

10:30 Bird flew (from hole?) from tree on South side of territory.

13 May 9:15 2 Birds in above tree. No birds seen in hole

7 June 8:15 1 birds seen in tree on south side of terr. Some stems remain in granary. No birds seen in hole(s).

8 June. 10:00 - 11:30 Observed 2 ind; both fairly inactive - did some fly catching, but do not appear to have a nest.

14 June 10:00 - Checked holes - nobody seen.

20 June 10:00 - Checked holes - nobody seen - Some acorns remaining

16 July 9:15 - Checked holes - nobody seen. - A few acorns remaining

14 August 8:20 - Checked holes - nobody seen in a hole, but bird my have flown from hole on south side of tree. - worth checking again. A few acorns still remain.

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MECANERPES FORMICIVORUS

BLOM ONE — HNHR

April 1 — 9:15 - Saw two birds, including possible chase - ~~Possible~~ Saw 3 birds - So possibly a new breeder female is trying to come into this group.

April 18 — 11:55 - Nobody seen in a hole.

15 May — 9:45 - Nobody seen. Very few acorns stores remaining

12 June — 20:30 - Roost watch - No birds seen.

13 June — 9:30 - checked and looked for holes - Nobody seen. I don't see any complete acorns, but there could be a few remaining.

24 June — 9:15 - Nobody seen in a hole; one bird flew from granary. Still a few acorns remaining

10 Aug — 15:30 - checked holes - nobody seen - No acorns remaining.

20 Sept — 10:00 - No birds seen. No acorns in main granary. On second look, see a very few new acorns After leaving, bird was heard back towards granary

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MELANERPES FORMICIVORUS

BLOM-ONE HNHR

2 APRIL 3:30 - No birds seen. No acorns in granary
29 MAY 17:00 - Set ambush to try and catch unbanded female.
No eggs in hole with ambush. Cleaned out starling hole located 3m below these roost hole.
31 MAY 20:30 - Yes - caught both the male #2314 and the Unbanded female. Took blood and banded her. She is now bird #2679.
12 August 6:20 - No birds seen or heard. No new acorns in granary
5 Sept 7:35 - No bird seen or heard.

1997

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3 April 10:30 - Bird flew from middle hole in next
Walt arrived w/ rope. checked cavity. 3 eggs
① 26·2 * 19·2 - Looks fairly fresh, but incubated.
so perhaps the clutch is complete.
Cleared out starling nest in cavity above ACW nest that contained 6 eggs.
15 April 10:00 - 2 babies 4·5g and 5g; 1 egg - check again to see if hatches. (Look like it will not - blotchy looking)
16 April 13:00 - Still only 2 babies, Took 3rd egg.
11 June 16:00 - 4 eggs - well incubated; 1 egg with small dent.
① 24·6 x 19·6 - 2nd nest
15 June 16:30 - 3 babies 4-9g - Dented egg opened - approx ½ developed.
5 July 17:00 - Banded + bled 2 happy babies 2916, 2917.
Plenty of acorns remaining

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MELANERPES FORMICIVORUS

BLOMTWO — HNHR

April 12 — Checked cavityes in both trees w/ climbing set-up. (Abar done on tour w/ Walt)
No one appears to be nesting
Removed starling box - tree swallows were about to nest in box.
- Some stores in lower tree.

8:50 Check cavities in both trees - no birds seen in holes

12 May — 9:10 Checked cavities in both trees - no birds seen in a hole. Bird flew from each tree as I arrived

13 May — 9:20 Checked cavities again - NO birds seen in a hole.

17 June — 8:30 - 10:05 observed from hill side to NE. Observed ♂ in main granary tree, 1 other ind seen briefly. Checked holes - no birds seen. No stores remaining in main granary.

14 June — 10:10 - Checked holes - nobody seen

30 June — 10:15 Checked holes - nobody seen

16 July — 9:25 Checked holes - nobody seen -

14 Aug — 8:30 - Checked holes - nobody seen, no stores remaining

[redacted]

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MELANERPES FORMICIVORUS

BLOM TWO — HNHR

April 1 — 9:30 - Some staves - Saw no birds

April 4 — 18:30 Roost watch. We (Jim, Peter, myself) do not see birds enter a hole. Bird did call from tree E of granary tree at roost time

April 6 — ~~18:30 - 2 E bird~~

16:00 - checked 2 holes in tree to E of granary tree. Nothing there.

18:30 - Roost watch. 2+ birds enter upper hole in tree I checked this afternoon.

April 7. 17:00 - Set ambush at upper hole in tree located 30 m E of granary tree.

18:30 - Roost watch.

April 8 — 4:35 - Pulled ambush - worked great. 5 birds in hole - but alas 2 got away as I was removing them. ~~Got~~ Got 2 unbanded. likely that 5th bird is Unbanded (i.e. 3 unbanded in group) 2573 DBLUE / WHITE / WHITE / METAL

2574 Lt Green / Yellow / Red / M

April 18 — 11:50 - Nobody seen in a hole.

15 May — 9:30 - 3 birds flew from granary: Nobody seen in a hole. No acorns remaining.

13 JUNE — 9:30 - See RED? / M ? ? [2344]. One other bird also seen. Nobody seen in a hole

24 JUNE — 9:30 - Saw 1 bird, but nobody in a hole.

10 Aug — 15:50 - Checked holes - Nobody seen.

20 Sept. — 10:15. No birds seen; no acorns in granary. Saw M / (mauve / black)? / ? ? ♂ seen in area between Bmt Blan

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MELANERPES FORMICIVORUS

BLOM-TWO HNHR

April 12 3:20 - No birds seen. No acorns in granary

Aug 12 6:30- Saw 2 birds, including unbanded ♀. No new acorns in granary. No body seen in a hole

5 Sept 7:40- Saw one bird on top of granary; nobody in a hole

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* 1997 *

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3 April 10:20- Bird flew from top of tree; no birds seen in a hole.

15 April 10:20 - Bird flew from hole. 6 eggs, early incubation ⌀ 23.1 x 19.1. All egg look pretty fresh.

20 April 14:30- 7 eggs now!! So last egg date is 16 April

29 April 14:30- Set ambush to capture unbanded birds. 4 babies; 2 unhatched eggs remaining.

19 MAY 6:40 - Banded 3 healthy babies #2829-2831

11 June 16:30 - No birds seen in a hole

15 June 17:00 - No birds seen in a hole

6 July 8:30- No bird sseen in a hole; No acorns remaining in granary/nest tree.

MELANERPES FORMICIVORUS

BLOM THREE HNHR

April 12 9:20 Checked cavities - nobody answered- bird flew from tree w/ starting box as we approached, (Not from cavity). Removed starting box.

April 21 9:05 Checked cavities - no birds seen.

April 22 15:20 5 eggs. No birds flushed from cavity.

① 25.1 x 19.3 ③ 24.5 x 19.2 ⑤ 23.8 x 18.4

② 24.1 x 19.5 ④ 24.7 x 19.6

Eggs fairly fresh.

May 11 9:30 5 babies

① 32g Lblue ③ 28.5 oR ⑤ 21.0 NoBA

② 30.0 Yellow ④ 25.5 pink

14 June 10:20 Checked hole in nest tree - nobody seen. Plenty of acorn stores remaining in granary.

30 June 10:25 Checked holes - nobody seen.

16 July 9:35 Checked holes - nobody seen - A few acorns remaining in granary.

14 Aug 8:40 NOBA ♂ adult lands in top of nest ~~tree~~ with green acorn. Nobody else seen, no stores remaining.

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MELANERPES FORMICIVORUS

BLOM THREE — HNHR

1 April — 9:40 - No bird seen in a hole. Lots of acorns.

6 April — 7:00 - Nobody seen in a hole

18 April — 11:45 - Nobody seen in a hole

21 April — 11:10 - Checked holes. Nobody seen.

15 May — 9:00 - Checked holes. Nobody seen in a hole. One bird flew from granary. Lots of acorns in granary.

23 MAY — 20:00 - Roost watch - Nobody roosted in main tree. Heard some individuals toward Oktemal.

6 JUNE — 11:30 - Checked holes - Nobody seen in a hole. Observed ? / ? MAUVE/Yellow in main nest tree - ↳ [2470]

Lots of acorns remaining

13 JUNE — 10:20 - No birds seen. Acorns plentiful.

24 JUNE — 9:35 - Saw 1 bird, but nobody in a hole.

10 AUG — 16:00 - Saw 1 bird in top of nest tree. Nobody seen in a hole; a few acorn stores remaining

20 Sept — 10:25 - Possibly saw ? / ? (Mauve-orang) in area between blom 2 & blom 3 - but prob a Blom 2 bird

One new, broken open acorn seen on granary.

No ~~fresh~~ old acorns / a fair # of old shells of acorns

No birds seen at granary / nest tree.

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MELANERPES FORMICIVORUS

BLOM-TREE HNHR

April 2 3:10 – No birds seen. No acorns in granary

August 12 6:45. Heard a woodpecker as I approached. No new acorns; nobody seen in a hole.

5 Sept 7:45 - No birds seen or heard.

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* 1997 *

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3 April - 10:10 - No birds seen.

15 April 11:00 – 3.5 - 10.5g nestlings – 5 of them!

4 MAY 13:00. 4 healthy babies banded and bled #2758-2761
Tranferred 2761 to cavity to help out keithond
Ward. (to prevent fledging too early so that they
could do additional filming)

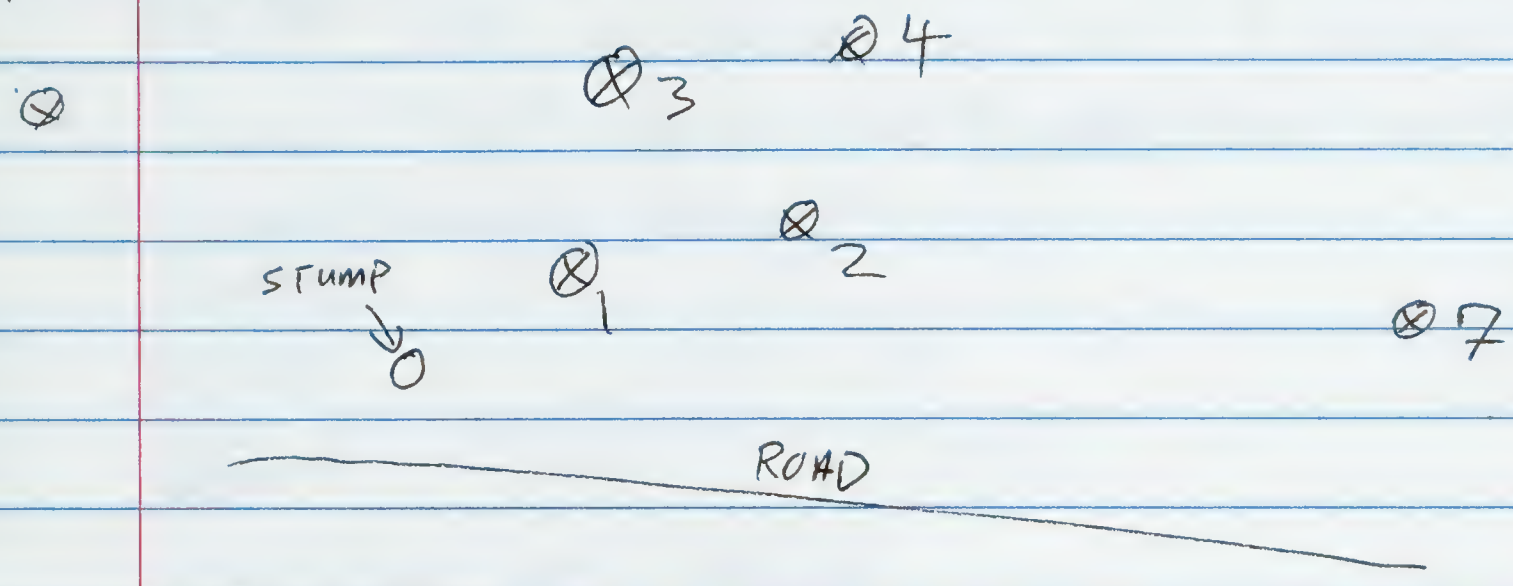
9 @ MAY 10:00 Returned baby 2761 to nest – Lost 12
grams of weight in the last 6 days.

6 July 8:45. 2 babies just hatched + 1 egg that looks like, it
is OK and may still hatch.

MELANERPES FORMICIVOROUS

GAZEBO HNHR

10 April Started obs. @ 9:00



2 unb. ♀'s pecking / drumming on central trunk of tree 1

Rd / mt
? / Gr
W / ?
W / ?

} Both obs. in tree 2 [ ] Presumb id: [ ]

Activity fairly high - saw about 8 chases in first hour of observation

Rd / YL
? / ?
W / mt
? / ?

} Both in tree 2, [ ] presumb id; [ ]

Ended obs. at 10:00

Started Obs. at 17:15

Rd / M
? / ? Flies to tree 4, leaves; no others w/ her.

[ ]

Fairly quet this evening - (e.g. watched ind. 15 min and it never moved)

At least 7 birds still in terr. - Saw 4 in tree 2 3 in tree 1

One ind. (? id) flew from tree 2 to tree 1 - several chases, many wkas.

MELANERPES FORMICIVOROUS

GAZEBO HNHR

10 April
Rd/Yl / ? / ? Obs. in tree 2 (see prev. page map)
Mv/Rd / ? / ? Obs. in tree 4 (" " " "
3 ind (? id) leave tree 4, fly west at 18:00
2 ind return (18:15)
wt/mt / ? / ?
Mv/R / ? / ?
~~? / ? / ?~~ ? / ? / ?

End obs. at 18:30

29 April
17:00 ? / W/rw (N) ♀
17:30 End obs.

29 April
Back again to identify which ♀'s are breeders in group now.
7:50 Starting observation.
8:20 Starling in cavity on west side of tree w/ nest hole checked by Walt. — feeding nestlings
8:32 Mv/Rod / lt blue/m ♀ [#2260, (1500)]
8:52 ? / ? / nw (N) / ? [#2283, (1500)]
~~dropped~~
~~9:44~~
9:44 white/d-green BPK (N) / ? / ? ♂ [1808]
9:45 red/yellow / nw ? / ? / ? [#2283 (1500)]
9:54 white / rw -
9:59 white / mt / ? / - ♀ ↘ same bird [2259] (1500)
10:00 white / mt / lt. green / by (N) ♀ ↗ bird
10:15 - End obs. ♀ checked hole in tree w/ styrofoam block. Hole in limb facing east, underside. 1500 ♀'s appear to have won breeding position. Older breeder ♀ never seen.

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MELANERPES FORMICIVOROUS

GAZEBO — HNHR

30 April — 15:00 Arrive to check again on what up with this group. Only saw old breeder male 1808. Are 2311 and 2312 around? - Any male guarding?

15:21 ♀ RED/YELLOW / [#2283]

15:24 ♂ ? / ? / white / dgreen-BPK(N) [#1808]

15:32 ♀ ? / ? / nw. / ORANGE [#2283]

15:52 ♂ white / dgreen-BPK / ? / ? [#1808]

16:05 ♀ white / (m?) / ? / ? [2259]

16:10 ♀ ? / ? / ? / cgreen / blk-wt(N) [2259]

16:50 ♀ MAUVE / RED / ? / ? [2260]

17:00 - End obs. Still have not seen 2311 or 2312 - but I'm not convinced they are not here, check again.

5 May — 9:10 Arrive to observe for 2311 and 2312

10:00 Saw only 2 birds; unable to ID; Use blind.

6 May — 7:50 Arrive; set blind; Observe for 2311 and 2312

Observed: 2260; 2283; 1808

9:07 ♀2283 looks in hole (with string going going just above)

9:10 End obs.

12 May — 9:00 Bird in hole. ~~with~~ at string for rope

11:30 - 5 eggs including 1 "runt" egg

① 25.5 x 19.1 ③ 24.0 x 18.5 ⑤ 21.1 x 17.1

② 24.6 x 20.4 ④ 23.0 x 19.6

13 May — 10:00 - Arrive; set blind; Begin observation.

10:05 ♀, HO; 10:06 ♀, HI; 10:16 ♀ leaves

10:16 #2259♀ - Arrives, enters hole. 10:18 #2283 enters hole.

10:20 ♀ leaves. 10:29 Obs. ♂1808 in adj. tree.

11:06 ♀ 2260 enters hol.

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MELANERPES FORMICIVORUS

GAZEBO — LINHR

13 May. 11:10 (Continued) Ending observations. Again, as I recall from previous obs (29 April - 6 May), I saw some aggression between two birds. One bird chased the other briefly. I have never been able to ID either of the individuals involved, but I wonder if these birds are the breeder male ~~eh~~ (1808) chasing a former helper male (2311 or 2312), and keeping them away from the new breeders ♀'s — and making it so that I have not been able to ID either 2311 or 2312 since before 29 April.

14 May 9:15 6 eggs, ♀ in hole when I arrived

① 25.5 x 19.1 ③ 24.2 x 18.7 ⑤ 21.2 x 17.2

② 24.7 x 20.5 ④ 23.5 x 19.8 ⑥ 23.8 x 19.7

14 Aug. 10:15 - check holes - nobody seen; a few stores of acorns remaining

1995

1 April 11:05 - Lots of stores - Saw several birds; nobody in a hole.

17 April 11:30 - checked holes - Nobody seen.

27 April Attempted to check hole in tree located on W side of pond. Unable to climb — too much poison oak. and unable to throw string over high enough branch.

6 MAY 12:15 - 8 eggs, warm, early Inc. ① 25.6 x 20.2

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MELANERPES FORMICIVORUS

GAZEBO HNHR

31 MAY 14:30 - Add AVIARY nestling (from MURF) to nest. 2 healthy nestlings in nest prior to addition, so now there are 3. ~~This~~ AVIARY bird has hatching bands on both legs and ID # 2610. Took one tube of blood in case something happens to this bird, — take another when banding/bleeding remaining 2 nestlings that actually belong to GAZEBO.

5 JUNE 15:30 - Banded/bled 3 nestlings. 1 of 3 of these nestlings was a transfer from (2610 MURF) The other two, 2623 and 2624 are GAZEBO ~~fledglings~~ babies. A few acorns remaining in granary.

20 Sept 10:50 - No birds seen; a few acorns (new ones!) in granary next to nest tree.

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MELANERPES FORMICIVORUS

GAZEBO HNHR

April 2 1:45 - Saw 2 birds, but nobody in a hole. A few acorns remain in granary closest to road.

April 6 Roost Watch. checked last years nest hole – bird looking out! So they are roosting in this cavity?

April 21 12:30 - Female outside of last years nest hole looking in.

18 MAY 10:50 - EGG #3 PIPPED; did not check others. Still 7 eggs, including runt egg.

21 MAY 9:30 - 4 babies; largest – 13g; no eggs remaining. And as a bonus the breeder 9 2260 was in the hole when I checked the nestlings.

12 August 8:05 - Bird in hole! - flew from hole before I could see if it was a juv. or adult.

10:15 - Walt climbs up tree. Finds 9 eggs!!! (1 is a runt egg) -

① 25.0 x 19.6 ② 26.0 x 20.1

Clutch complete probably; a couple of days old?

22 August 10:50 - 7 live babies, + 1 dead one in nest, no eggs

Range of weight of 7 live babies 4-12g.

took tissue from dead nestling #2716

10 Sept 16:05 – 3 babies. banded # 2718-2720

Still need to put on metal bands (902-

2718 orange-dble / metal / red / yellow — M# → 42789

2719 metal / black / green / dblue — M# → 902-42790

2720 yellow / dblue-white (W) / metal / pink. — M# → 902-42791

97 J. MAYDOCK

MELANERPES FORMICIVORUS

GAZEBO — HNHR

April 3 — 9:10 - Bird flew from near nest hole of previous years.

14 April — 11:15 - Still 7 eggs. Bird in hole when I arrived

20 April — 1:30 - 6 babies now, no eggs remaining 4.5g - 11g. 4.5g nestling does not look too good. Likely flat

7 egg hatched and ~~was~~ baby died.

7 MAY — 15:00 - Banded and bled 5 healthy babies. #2782-2786

11 June — 15:30 - 2 babies hatched today. 4 eggs - all look fertile.

① 24.6 x 19.3 ② 24.1 x 19.4

16 June — 9:30 - Bird in hole. I can hear the one remaining baby.

22 June — 16:40 - Nest failed - One dead baby in hole - died w/in the last day or so, for no apparent reason. took tissue from dead baby #2902

5 July — 8:40 Bird in hole; traditional hole. Checked at 9:30 Found 6 fresh eggs

18 July — 7:00. 5 babies: Largest 14g. (3 about this size + 2 smaller ~5g that probably will not make it) Acorns remaining.

4 August — 16:00 - Banded and bled 3 babies w/ Erin. They are small for their age (20d old now) and there is a big difference in size between the largest and smallest (70-44g) but they look relatively well fed, especially compared to nestlings in other late (summer) nests. Some acorns still remaining. #2951-2953

23 August — 10:00 - Found fledgling on ground - too weak to fly. #2953. Can see another baby that is still in nest hole. They are very late to fledge. - Acorns remaining.

MELANERPES FORMICIVOROUS

Los Arbolitos — HNHR

5 May — 10:00 Bird in hole in tree on border of GAZEBO/CU GRANDE territories.

17:45-18:30 - started to open hole (2 sides)

6 May — Opened Hole

10:30 - 4 eggs fresh

① 25.4 x 19.0 ③ 26.5 x 18.7

② 20.5 x 17.5 ④ 24.3 x 19.7

11:40-12:20 Observed from blind - Nobody came

7 May — 15:30 6 eggs now. marked additional 2 eggs

8 May — 11:30 started observation from blind.

11:30 ♀ HO (white line broken at bottom)

11:45 OBLUE/M ? / ? ♀ enters

12:20 ♀ leaves end obs.

15:00 Start obs.

15:02 ♂ leaves

15:02 ♀ arrives m/dark ? / ? (looks like above ♀)

15:45 ♀ leaves

15:45 ♂ arrives by-10 (m)

16:10 ♂ leaves

16:50 ♀ arrives OBLUE/M both split bands (saw 1+ blue)

17:10 . end obs.

17:30 - Checked holes - 7 eggs - marked 7th egg.

9 May — 10:08 Start Obs.

10:43 OBLUE/M ? / ? ♀ enters

11:00 by-10 ? ? ♂ arrives looks in leaves

11:01 ♀ looks out / leaves.

11:05 - 11:20 changed position

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MELANERPES FORMICIVORUS

Los Arbolitos — HNHR

9 May — 11:20 Obs. continued
? ! ?
L-BLUE-D-BLUE / RED-DBLUE ♀ enters.

11:54 ♀ lv.

12:15 End obs.

13 May — 11:30 8 eggs, ♀ flew from nest

① 25.4×19.0 ④ 24.3×19.6 ⑦ 24.6×17.5

② 20.5×17.5 ⑤ 24.3×19.5 ⑧ 26.5×18.5

③ 26.5×18.6 ⑥ 24.7×18.8

Note: 1-4 measured on 6 May too.

9 June — 13:00 - Banded/bled 5 nestlings w/ Walt.

13 Aug — 16:15 - Arrived to set ambush, 5 birds flushed from hole including ? ! ? Dgreen/m [2095]. Set ambush, but nobody returned to roost.

14 Aug — 10:05 - fixed ambush so that it could not fall. Will try again in a few days.

1995

1 April — 10:50 - No birds seen in a hole.

17 April — 11:20 Nobody seen in a hole. Good supply of acorns in granary by road.

27 April — (PM) Checked hole - Nobody seen.

6 MAY — 12:15 - 2 eggs - Not incubated; cool. Saw bird fly from near/in hole as I approached.

9 May — 15:15 5 eggs - Warm, bird flew from hole.

12 MAY — 14:30 5 eggs - Warm. Measured ①: 24.9×18.7

11 JUNE — 14:30 Banded/bled 3 nestlings, Some acorns in granary located along road.

10 Anl -

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96

MELANERPES FORMICIVORUS

LOS ARBOLITOS — HNHR

10 Aug - 17:00 - Checked holes - nobody seen in a hole - 3 birds seen in granary (located towards CUARANDE). No acorns remaining in granary

20 Sept - 10:45 - One bird seen on entering territory. A few new acorns in granary tree.

1996

1996

April 2 - 2:15 - No birds seen. No acorns in granary located towards dirt road.

April 6 - 6:45 - Roost watch. 2(?) birds use last year's nest hole.

April 7 - 4:45 - Came to set ambush to catch 1867. Found her dead in cavity. She must have died within the last few days. So probably I did not see 2 birds enter roost on April 6.

April 21 - Nobody seen in a hole.

12 August - 7:50 - No birds seen or heard. No new acorns in granary.

22 August - 10:45 - 4 eggs, incubated.
① 25.4 x 18.0

August - 12:30 - 3 nestlings 14, 15.5 and 11g

4 Sept - 11:30 - Caught unbanded ♀ at nest. #2721
m / Yellow
Mauve-Yellow / Yellow-Mauve

19 Sept - 9:00 - Arrive to band babies. Found starling in nest with babies!! Was this starling feeding or perhaps being fed? LISA reported very loud begging calls in prev. feeding watch

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MELANERPES FORMICIVORUS

LOS ARBOLITOS HNHR

April 3	9:15 - Checked nest hole from last year - no birds seen:
April 14	12:00 - Checked nest hole - No birds seen
15 April	12:15 - Bird in hole - checked - No eggs, but ready
16 April	15:30 - Still no eggs. (No bird in hole when I arrived)
23 April	14:30 - 3 eggs now - fresh; bird in hole when I arrived.
26 April	15:30 - 4 eggs - Bird in hole. ① 25.15 x 19.8
6 MAY	15:30 - 4 babies. all about the same size (5-6g range)
27 May	15:30 - 4 babies banded - all healthy and happy #2854-2857.
5 July	9:15 - No body seen in a hole; Saw adults Fledgling in granary tree; Plenty of acorns remaining. Check hole in this tree again soon - it look good.

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MELANERPES FORMICIVOROUS

CV GRANDE — HNHR

11 April — -5 eggs (Walt checked). Look fairly fresh - Bird left hole when we arrived. Difficult, but possible to reach eggs Walt cut on access hole to make easier.

16 April — 18:30. Roost Watch. (Eggs removed by Walt) 5(?) birds in hole in roost tree located East of main grainery tree. Difficult to get accurate count because birds went in/out/in/etc.

17 April — Attempted mate guarding watch. observed the following birds in main grainery:

8:20 orange-lt blue/m ? / ? [1616]; 8:24 —/red/m [2026]

8:24 2026 chase ?? around twice and out of grainery tree.

8:40 m/dgreen/black/? [2172]

8:42 3 ind's chase ?? from grainary.

8:45 orange-lt blue/m ? / ? [1616]

9:16 2026, 2172, 1616 Spend most of the time in the main grainary, but neither male 1616 or 2172 follows female 2026 when she leaves grainary tree.

9:45 For example: 2026 flies from grainary tree - ~1min later 2172 follows. Another time 2026 flies - nobody follow w/in two minutes.

10:00 red-dgreen/[lt-blue] m / L pink [2038]

10:20 D-blue/— ? / ? [2295]

10:41 3 or 4 birds chase ?? from grainary tree.

10:50 2026 leaves MG (= main grainery); nobody follows w/in 1min.

11:04 2026 leaves MG: nobody follows w/in 1min.

11:05-10 Birds ♂♂, ♀♀ visit nest hole several times, ♂ rmv's wood chips.

MELANERPES FORMICIVOROUS

CV GRANDE HNHR

17 April (cont.)

9:50 Saw ♀ + ♂ go into nest cavity, ♀ 2nd, ♀ left first after 30sec – 1min, ♂ left 1min later; unable to identify ♂

10:20 dk-blue / m / ? / ? in main granary [2295]

10:30 m/d green / black / ? in main granary [2172]

10:41 3-4 birds chased ?

10:43 orange-l.blue / m / ? / ? and orange / d.-blue / ? / ? together main granary [1616] and [2295]
orange-lt-blue / m / Mauve / ? [1616]

10:50 2026 leaves main granary no one follows w/in 1min

11:04 2026 leaves main granary none follows w/in 1min.

11:05 orange-l.blue / m / ? / ? looks in nest hole.

11:14 ♂ removes wood chips from nest hole.

11:15 ♀ enters nest cavity leaves.

11:17 ♂ bird return from nest tree to granary tree.

11:18 3 birds flew to west of nest – too far to obs.

11:22 See that Blk / dk green / ? / ? [2172] remained at granary.

11:23 ♀ returns [2026]. to main granary

11:24 See orange-lt blue / m / ? / ? [1616] in main granary w/ ♀ [2026]

11:25 [2026] has been doing a lot of fly-catching throughout observation.

11:43 [2172] enters nest cavity, ~30 sec later [2026] looks in, stays ~5 sec. then leaves. ~30 sec later [2172] leaves.

11:45 Ends obs. In general ♂'s do not seem to be mate guarding, but group is more or less staying together in the same tree (i.e. within a few minutes of one leaving others will follow – this does not happen within seconds usually)

MELANERPES FORMICIVOROUS

CV GRANDE — HNHR

17 April — Continued from previous page.

11:43 ♀ and ♂ Enter nest cavity, ♀ entered 2nd, Both stayed about 30sec; ♂ stayed 1min more after ♀ left.

11:45 End Obs. Males do not seem to be male guarding, but group does more or less stay together.

18 April — Caught 5 in roost (Mark)

Released 2026, 1616 at dawn, released 2295 at 5:45

Held 2038 (removed to captivity until after egg laying)

18 April

9:45 Power struggle—at least 10 birds in grainery with constant chasing.

10:58 2 unb. ♀'s

10:59 [2172] green

11:02 pink [2026]

11:07 ? / ? / ? orange / blue-wt(N) [2295] } CVGR

11:22 m / red-wt(N) / ? / ? } together

11:22 m / green / ? / ? } both ♀'s [♀2151 Murf]

11:32 orange-lt blue / m / ? / ? [1616] CVGR

11:46 orange / red-wt(N) / m / ? , ♀ [?♀ Or/R-W(N) / m / D Blue #2053, CVI]

11:48 m / white / ? / ? } same bird. ♀ [2081 MPHF]

11:49 ? / ? / yellow / d-green-orange }

11:56 by- / yellow (yellow) / ? / ? ♀ [♀2336 MPHF]

11:59 red / lt-blue ♀ [♀2151 Murf]

12:00 3 unb. ♀'s seen at once.

12:40 m / wt / yellow / d-blue-orange [♀2081 MPHF]

12:41 dk-wt / yellow / m / white [♀2336 MPHF]

13:19 End Obs. All four group members (2038 removed) actively chasing intruding ♀'s, mostly however, 2026 is chasing all chasing in main grainery.

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MELANERPES FORMICIVORUS

CU GRANDE — HNHR

April 20

8:00 — by. ?/Y / m/? [2336] and [2081] (Yellow) both from MPHF in CU Grande grainery. Several other intruders doing fly bys.

7:50 Set net to catch intruders w/ Mark.

8:10 ?/m orange/dblue-wht(N) [2295]

8:25 Caught 2081, held.

April 22

8:00 – Power struggle continues.

dblue/m / ?/? [2295]

8:05 green [2172]

8:06 pink [2026]

8:12 white/(red-blue) / ?/? / ?/? ↑ same bird. [2253, P4QE]

8:14 yellow/m

8:15 black stripe orange-blue/m / ?/? [1616]

8:19 white/(d-blue) / yellow/m ♀, ♂ red-blue

8:20 orange/m / ?/? [1616]

8:24 white/red-dblue / ?/? ♂ (old green paint) [2253]

8:34 ♀ white/red-blue / yellow/m [2253] is being chased by several group members; keeps returning to upper most branch in grainery. Several other birds (2-4) in area; mostly doing fly-bys.

8:45 – End obs. No others birds except white/red-blue / yellow/m able to stay in grainery.

April 22 — Set ambush to catch/remove 2172 (Walt) – Later that night (with M. Starbuck) we decide to postpone capture since ♀ has lost nearly 15g defending her breeding position.

April 24 — Remove ambush.

18:00 – Some (1-3) intruding ♀'s still in territory. None able to land and stay in grainery before being chased. Power struggle seems to be winding down.

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MELANERPES FORMICIVORUS

CV GRANDE — HNHR

8 May — 9:00 - Still some chasing in granary tree
L Blue-Dgreen/Metal RED / by-(N) ♀ (green paint?)

2295♂, 2026♀, 1616♂
: / ? / MAUVE / M ♂
? / ? / RED / GREEN (green paint)?

Unb ♀(s) 2 (mostly staying 40 m from granary tree)
M / L-Blue ♀
? / ? / O / L-Blue ♀] same bird?

10:30 - Fairly quiet now, but ♀ 2026 still chasing.

15 May — 19:00 - Unable to find where birds are roosting, but there must be a hole in the forest to the E of dirt road.

14 Aug — 9:40. A few acorns remain in main granary.

1995

1 April — 10:40 - Saw several birds in granary - No birds seen in a hole. Lots of stores.

18 April — 10:40 - Checked holes. Nobody seen.

27 April — (PM) - Checked holes - Nobody seen

11 JUNE — 16:00 - Juv. in this years nest hole looking out. This bird should have fledged ~ JUNE 1, [redacted] There is not a second nest started in this hole.

29 JUNE — 10:50. banded/bled 4 nestlings, #2648-2651 with Indy and Ken.

10 Aug — 17:00 - Saw 3 birds, but nobody in a hole. Some acorns stores remaining

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MELANERPES FORMICIVORUS

CV GRANDE — HNHR

2 April — 2:35. Fair amount of acorns remaining. Saw 2 birds, but nobody in a hole.

10 April — 2:30 – Walts finds bird in hole; last years nest tree/hole in live oak NW of granary tree.

11 April — 13:40 – Walt reports 6 eggs. Incubated.
Measured 2 eggs: ① 24.9 x 20.8 ② 25.8 x 20.5
All seem normal

18 April — 13:11-4 NESTLINGS ! / UNHATCHED EGG FOUND.
WEIGHTS: ~26.0 (7 day old)
~24.5 (Band on MAY 2)
~22.0
~20.5

12 August

12 August — 7:40 - One bird flew from granary granary. No birds seen in a hole. No new acorns

22 August — 9:10 - Nobody seen in a hole.

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MELANERPES FORMICIVORUS

CV GRANDE HNHR

April 3 — 9:30 · Bird flew from near hole in tree on GAZEBO/LARB side of territory. Could not see if bird was in hole, but there is a nice looking hole in this tree now.

14 April — 11:45 - Saw 2 birds in above tree. Nobody seen in a hole

16 April — 11:50 - Birds in tree again, but I did not see anybody in a hole.

8 MAY — 11:30 - Bird in hole in tree made into granary by us after there granary was cut down.

7 MAY — 16:30 - Opened new hole (Not really a new hole, but there was a previous hole into this cavity that had completely grown over) Found 3 fresh eggs, so they are probably still laying.

14 MAY — 16:40 - Still just 3 eggs - Bird in hole when I arrived ① 24.7 x 19.2 All Eggs look infertile.

22 MAY — 12:30 - No eggs remaining - No evidence of why nest failed but, of course, eggs looked infertile anyway.

22 June — 16:20 - 3 eggs again in the same hole. One piped (or dented?) so they may be about to hatch.

23 June — 9:15 - 3 babies. Hatched recently. (i.e. with last (6hrs) Acorns remaining in granary pieces we put up in this tree.

5 July — 9:30 - Babies still must be Ok - I can hear them.

12 July — 8:30 - Caught Unbanded breeder ♀ at nest. #2926.

15 July — 11:00 - Banded 3 nestlings. #2931-2933.

JOSEPH HAYDOCK

MELANERPES FORMICIVORUS

MURF HNHR

12 April 10:20 Some stores left. No birds responded to hellow

18 April Nest Watch

7:00 started obs. from hillside

7:15 moved closer

7:15 or/mt / ? / ? [1826]

7:34 See 5 birds at once.

7:34 mv/mv, ♂ [redacted] [2341]

7:38 m/red(?) / ? ? ♀ [2339]

7:43 Chase intruder from territory.

8:07 Many chases — seem to be > 6 birds around?

8:07 or/m / ? ? [1826]

8:33 dgreen-red/L Blue / ? / ? [1813]

8:40 dblue-lgreen/green-wt(N) / ? [1826]

8:56 ♂, green-butt, badly infected/swollen left foot Unable to use at all - dangles. difficult for him to mve on tree. poss [redacted] Not 1813

9:09 mt/dk / lt blue pink-butt. [1813]

9:13 mauve/mauve mauve/m [2341] - infected left foot bird.

9:25 m/dblue (cw ?)/ [1954]

9:30 End Obs. —

Males follow 1826 fairly closely — They stayed with her most of the time; but difficult to identify who is who among 2 breeding males. - In general I was consistently seeing 3 birds fly together.

19 April 17:50 Started Obs. of nesting holes. (

18:00 Bird went in hole on west side of tree.

MELANERPES FORMICIVOROUS

MURF — HNHR

20 April — 4 eggs (checked by Mark). Too deep to reach.—may need more cutting to get to. Look fairly fresh.

21 April — Nest watch

9:40 Started obs. (12:40 - Ended Observation)
9:55 ♀ leaves
9:59 ♀ chased from nest tree.
10:13 ♀ enters hole.
10:20 mt [1813] [redacted] looks in leaves.
10:40 MAUREI bird 1 [2341] looks in leaves
10:40 ♀ looks out, goes back in
10:42 [2341] looks in/leaves
10:45 Continued observation on tape.
Tape fucked up— can't transcribe

22 April
9:25 start observation.
9:31 - 2341 - looks in leaves. ♀ looks out. ~~returns~~ go back in
9:44 2341 - enters cavity, ♀ leaves (id?)
9:49 [1813] looks in, leaves.
9:52 ~~[redacted]~~ [1954] land, on branch w/ nest hole/ leaves
9:55 ♀ arrives; ♂ leaves.
10:00 ♀ leaves.
10:08 [1826] enters nest.
10:25 ♀ leaves [1826] w/ [1954] waiting at hol.
10:25 [1954] enters.
10:56 (1954) leaves, [redacted]
11:02 ♀ enters
11:10 ♀ leaves.
11:11 ♀ enters

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MELANERPES FORMICIVOROUS

	MURF	HNHR
22 April (continued)	11:20 ♀ looks out, go back in.	
	11:24 ? enters	
	11:45 2341 goes to hole; leaves	
	11:46 1826 " " " "	
	11:53 ♂ leaves [1813]?	
	11:53 [~~1954~~ 1826] enters.	
	11:54 [2339] looks in leaves	
	12:04 2341 looks in	
	12:04 ♀ leaves	
	12:05 ? enters	
	12:17 2341 arrives/leaves	
	12:19 ♂ looks out/ back in	
	12:24 ?♀ arrives/leaves.	
	12:25 End Obs.	
26 April	17:00 Removed 5 eggs. Dropped one - lost. 4 remaining eggs placed in incubator.	
1 May	14:00 - Set walk in trap for release w/ string from blind. Want to catch 1954.	
	16:10 No woodpeckers have visited near trap. Magpies were interested, but did not go in. Ending attempt.	
3 May	18:30 Ambush set at nest hole by Walt. I watch to roost. No birds!! Light on holes in nest tree (including nest hole w/ ambush) and holes in tree down slope bring no birds looking out.	
5 May	11:30 2 eggs (last years nest hole, uphillside of tree) Marked eggs "1" and "2"; did not measure.	

MELANERPES FORMICIVORUS

MURF HNHR

6 May 3eggs. Marked 3rd egg. (11:00)

7 May 4eggs Marked 4th egg (16:00)

11 May 6 eggs - removed to start experiment (10:30) ~~of~~
(Subordinate breeder male removal)

① 25.6×19.3 ③ 24.8 ×19.0 ⑤ 26.5×18.9

② 25.3×18.7 ④ 25.2×19.2 ⑥ 26.7×19.4

12 May 19:30 3+ birds roost in 1st nest hole.

13 May 16:30 Set ambush (WaH) 1st nest hole

" 19:00 Ambush fell - reset, but nobody went to roost in hole w/ ambush.

14 May 10:30 ~~to~~ fixed ambush in place so it would not fall

18:45 Reset ambush.

19:30 Saw only one birds go to this hole

15 May 4:30 - Only one bird in hole/ caught ♀ #2339
See notes in Walt's field notes.

8 June 17:00 - Checked holes - no body seen.

10 June 12:00 Checked holes - no body seen.

14 June 11:20 - Checked holes - nobody seen - No stores remaining

21 June 7:00 - Opened new hole - 2 nestlings about 16d old.
In tree w/ box 233.

25 June 11:30 Banded/bled 2 nestlings w/ Laura + Marcy

14 Aug 9:30 - Nobody seen, no acorns.

RW/RW

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MELANERPES FORMICIVORUS

MURF HNHR

April 1 — 10:30 - Some stores, not a lot considering the number of holes in granary. No birds seen.

April 14 — 18:30 - Roost watch with Jim. Jim reports 2-3 birds roost in upper tree, last years 1st nest. I did not see any birds roost in the lower tree.

April 15 — 16:30 - Set Ambush (Trying to catch for blood sample)
18:30 - Jim reports no birds stayed in hole. Ambush apparently knocked down by a bird after 2 had entered causing 2 that had entered to leave

April 16 — 14:00 - Tied Ambush in place for later attempt.

April 17 — 16:30 - Reset Ambush
18:30 - No birds entered,

April 18 — 10:00 - Took down ambush. checked holes for birds nobody seen.

7 May — 19:00 - Roost watch. Bird goes in hole fairly early (possible nest) in branch on N side of granary tree; later replaced by another bird. Did not see another bird roost in granary tree.

9 MAY — 16:00 - 5 eggs; measured 1 25.7 x 19.1; Bird on nest when I arrived. Mid-late incubation

12 May — 9:30 - Arrive to set ambush. Want to catch 1826; need DNA/blood sample AND want to remove her (BP) to cause power struggle/group with co-breeding ♂♂'s
But - There already is power struggle going on when I arrive.

MELANERPES FORMICIVORUS

MYBE HNFAR

12 MAY (continued from prev. page). Checked nest hole find 4 almost dead and very cold nestlings (1 is just hatching). Took those birds, warmed them up and placed them in the aviary.

11:00 - Return to find things are quiet. Observe the following birds during observation.

[2341] MAUVE/MAUVE

~~RED/METAL~~ ~~blue-yellow/green-white~~ [1826] BF

~~M/red-orange (N)~~ ? / ? [2339] HF

Do not see breeder male. Is he gone?

16 MAY 17:00 - Set 2 more ambushers in granary tree.

16 MAY 19:50 - Roost watch. Reset 1 of 2 ambushers. 1 bird roosted in tree below granary tree. Unfortunately ambush fell again as 5 birds were about to enter. None apparently went in.

17 MAY 4:40 - Pulled ambush at tree below granary and lower ambush in granary (this year's nest hole). Yes!! Caught one bird at each ambush. #'s ~~[illegible]~~ 1926 and 2339 Took blood sample from both, considered removing #1826 to cause power struggle, but decided not to since this group does not appear to have a breeder ♂, yet they nested (see above, 12 MAY)

31 MAY 14:30 - 2 of the 4 nestlings removed on 12 MAY survived in the aviary. One was left to fledge

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MELANERPES FORMICIVORUS

MURF — HNHR

31 MAY (continued) in the aviary. The other was transfered to GAZEBO. Took blood from nestling transferred to GAZEBO (#2610).

5 JUNE 9:30. 2nd MURF nestling that survived and will be left in AVIARY was banded/bled (#2619)

6 JUNE 11:00- Checked holes. Nobody seen in hole. No acorns stores remaining.* No birds seen.

13 JUNE 10:25-Checked holes, saw several bird in granary tree, but nobody in a hole. Some acorns remaining in dead tree located toward CU1

24 JUNE 10:45- Nobody seen.

10 AUG 16:15 - checked holes - nobody seen - Did not check. for acorns.

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MELANERPES FORMICIVORUS

MURF — HNHR

April 8 — 11:30 – No acorns. One female seen in lower granary tree. No body seen in a hole.

April 17 — 15:00- Put up two feeders; one in nest tree located higher on hill; the other in dead granary tree lower down on hill side.. No birds seen, but heard some birds towards CV1. Lisa & Joshua have reported that CV1/MURF birds (the few remaining) seem to be one group.

April 19 — ~~Took~~ 15:00 – Took down feeders and decided to use Los Arbolitos as supplemented group. Too many Crows/Magpies at MURF - Both feeders empty.

12 August — 8:35- No birds seen. No new acorns.

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MELANERPES FORMICIVORUS

MURF HNHR

3 April 9:45 - Bird flew from rear nest hole in upper nest tree. No bird seen in a hole.

15 April 11:45 - No birds seen in a hole

24 April 11:30 - Bird in hole. New hole in tree on CV2 side of ridge. Possible that this is a CV1 bird/hole? Both birds seen.

16 MAY 7:00 - Observation for nesting signs.

♀ L blue / white & Blue / (L Blue) Tm (945) - Mostly fly catching

♂ White / D blue / (2536) - Feeding

17 MAY 9:00 - Opened hole in tree towards CV2. New hole 4 babies; 3 about the same size at 75g; 1 small nestling at 45g.

20 MAY ~~Banded~~ 16:10 Banded and bled nestlings #2844-2847

23 June 9:30 - Plenty of acorns remaining; no birds seen in a hole; 1 jaor seen.

17 July 8:01 - One bird seen in granary tree. Very few acorns remaining.

94 / 95 Joseph Haydock

MELANERPES FORMICIVORUS

CVI — HNHR

12 April — 10:15. Bird flushed as we approached. Hole on S side of tree. good ladder hole.
15:40 Returned with ladder. ~~Walt cut out~~ Walt checked nest with mirror — 6-eggs
Walt began to cut out block; made one cut along/down left side of hole and right side, finally along bottom

Egg sizes (mm) (HAVE NOT incubated very long)

① 25.9 x 19.3 ② 26.2 x 19.5 ③ 25.8 x 19.7
④ 24.4 x 18.7 ⑤ 26.1 x 19.9 ⑥ 25.6 x 20.0

14 June — 10:40 Banded / bled 4 nestlings from hole next to wind mill.

16 July — 10:15. checked holes. nobody seen. A few acorns remaining in granary ~~of~~ in first nest tree.

14 Aug. — 9:25 - Nobody seen in a hole; Saw one bird in main granary; a few acorns remaining in this tree

1995

1 April — 10:30 - Some acorn stores. No birds seen.

16 April — 10:30. checked holes, Nobody seen.

21 April — 11:20: checked hole by windmill, nobody there

27 April — (PM) 2 eggs. Hole over stream in sycamore.

6 MAY — 11:30 - Still just 2 eggs. Bird incubating when I arrived. Measured 1 egg: 25.9 x 18.8

9 MAY — 15:30 - Nothing left in nest; checked under nest for pieces - Nothing found.

6 JUNE — 12:00 - checked holes, Nobody seen in a hole, but looks

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MELANERPES FORMICIVORUS

CVI HNHR

JUNE 6 (continued) they have a couple of new holes in tree along fence, side of tree facing CVZ. Lots of acorns remaining. Heard and saw a couple of birds

13 JUNE 10:20 - checked holes. No birds seen.

24 JUNE 10:45 - Nobody seen.

16 Aug 10:10 - Checked holes; nobody seen. Fair amount of acorn stores remaining

1996

2 April 2:45 - No birds seen. No acorns remaining in granary.

12 August 7:30 - No birds seen. No acorns

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MELANERPES FORMICIVORUS

CVI — HASTINGS

9 MAY — 10:20 - 11:00 - Observed to check for nesting activity - Both birds seen in granary tree several times. They also spent some time near windmill, but nobody seen in a hole or carrying food.

1998

8 MAY — 12:30 - Saw 2 birds in granary tree - Some acorns remaining. No bird seen in a hole.

15 MAY — 12:10 - Saw 2 birds (both by windmill and in granary tree). No birds seen in a hole.

2 JUNE — 17:30 - 12:00 - No birds seen in a hole or carrying any food. 2 birds heard/but not seen well in granary tree.

9 JUNE — 11:20 - 11:50 SEE ♂ — orange - ? / M / ? ? ? = [2224]

Heard a 2nd bird; saw briefly but could not see any bands. If anything in terms of a nest they could have eggs. Only saw/heard birds in main Granary tree.

~~1999~~

~~8 MAY — 10:50 - Checked nest hole in granary tree - Still empty.~~

~~Secret page~~

MELANERPES FORMICIVORUS

CV2 HNHR

12 April 10:00 Bird flushed from tree ("traditional nest tree") Located N. of main grainery tree. Plenty of stores in main grainery.

16:30 Walt checked cavity w/ mirror - 2 eggs Bird left as we approached w/ ladder

13 April Walt cut open hole

3 eggs

① 24.1 × 18.7 ② 23.9 × 18.9 ③ 23.7 × 19.2

14 April 11:00: Observed $\frac{\text{LPINK}}{?}$ / $\frac{\text{LPINK}}{?}$ [2416] in nest. tree - check holes - no adults seen in a hole, but saw juv. in hole in tree up cañon. Plenty of stores remaining.

21 April 11:00 Checked hole in main nest tree - nobody seen.

25 JUNE 15:55 4 EGGS, FAIRLY FRESH

① 23.6 × 19.2
② 23.3 × 19.6
③ 23.7 × 19.8
④ 23.1 × 18.8

30 June 10:50 - Hello? - Nobody in hole.

5 July ~10:00 - 4 babies, too small to mark w/ hatching band

WEIGHTS

12
14
7.5
13

16 July 10:00 - Could hear nestlings - no adults seen. Plenty of Stores remaining.

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MELANERPES FORMICIVORUS

CV2 #NHR

14 Aug 9:20 - Nobody seen; Some acorns remaining.

1995

1 April 10:20 - Lots of acorns. No birds seen.

13 April 12:52 - Arrive to check on activity of power struggle observed yesterday by W. Koenig. Today, upon arrival, things seem quite. Saw 1 bird fly from granary tree when we arrived. A few minutes later heard some calls from last years nest tree

21 April 11:00 - All quiet, Today is the first nice (sunny/warm) day during the last week, so I was hoping to see more activity in power struggle. checked holes — nobody seen.

6 JUNE 11:15 - Checked holes. Nobody seen in a hole, or for that matter anywhere.

13 JUNE 11:00 Saw several birds, but nobody in a hole. Found Primary feathers from one bird (adult?) on ground halfway to nest tree in small canon. Probably did not die too recently - 2-4 weeks ago? - No bands found. Bird may have been molting, or are these fledgling feathers?

Lots of acorns remaining

24 JUNE - 10 Aug 11:00 No body seen

16:40 - Lots of acorns remaining in granary; 2 birds seen near holes up small canon.

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MELANERPES FORMICIVORUS

CV2 — HNHR

2 April — 3:00 – No birds seen. Lots of acorns remaining in granary near gate.

8 April — 12:40 – Saw 3 birds in granary tree. Possible that mate guarding has started as I saw birds following one another.

17 April — 16:00 – Put up two feeders with dog food. CV2 is supplemented group, paired with Buckeye that is not being supplemented. Placed feeder in main granary.

18 April — 11:00 – Moved feeders to nest tree with many holes. Main granary location interfered with Ginger's magpie nest/feeding observations.

19 April — 14:30 – Took down both feeders. Decided to use Buckeye as a supplemented group. Too much interference with crows/magpie in CV area.

21 April — Checked holes. No body seen

28 JUNE — 19:35 – Arrive to do roost watch to determine which ♂ is incubating at night. Bird in hole when I arrived. We watched each other for ½ of an hour than he backed into hole.

30 JUNE — 19:25 – Arrived a bit earlier.. No body in hole,
19:55 – Red (orange?) on left enters – did not see any metal band, so it is likely that it is 2418, I actually thought the bird had only red (or orange) bands on the left leg.

1 July — 19:54 – Roost watch. See m / lgreen-D-green enter [2417]

4 July — 19:50 – Another roost watch. Red / (narrow split) roosts this time – [2418]

MELANERPES FORMICIVORUS

CVZ HWHR

15 July 13:15 - transferred 2 AVIARY babies - #2711 and 2712 to nest. (Walt climbed up since rope was on small branch above nest). 2 nestlings still in hole - checked one nestling and it looks healthy.

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MELANERPES FORMICIVORUS

CV2 HNHR

~~CV2~~

August 12 7:15 - No live birds seen, but see wing feathers of a woodpecker in this years nest hole. It looks dead. No new acorns in granary, but they still have a few old acorns. Nalt climbs tree and finds 3 dead, dried up babies. It does not look like they grew much after banding, so they died well before fledging [Orange - Dgreen - Dgreen Orange] (see Walt's notes for identities)

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* 1997 *

April 3 Checked nest cavities - No body seen in a hole

15 April Checked holes - nobody seen.

18 April 17:00. Bird in hole - 7 eggs, including 1 runt egg. Complete ??

20 April 12:45 - Bird in hole - Still 7 eggs, So it was complete.

① 23.9 × 18.4 ② 24.4 × 18.6 ③ 24.9 × 18.6

④ 24.7 × 18.9 ⑤ 24.1 × 18.9 ⑥ 24.8 × 19.0

⑦ 21.0 × 17.0

28 April 10:00 - 3 babies, 4 eggs. 3 babies hatched today.

1 MAY 10:00 5 babies - 2 eggs. Took the 2 eggs (included the runt egg and one normal egg.)

20 MAY Banded 4 healthy babies.

19 June 9:15 - No birds seen in any holes; lots of acorns remaining.

(seen from granary)

MELANERPES FORMICIVORUS

OK CORRAL — HNHR

12 April — 9:50 Checked cavities - no birds answered
MANY stores remaining.

13 April — Mate guarding observation attempt w/ Walt.
Started accross valley - too far to observe id's.
I thought I saw 2 ♂'s 1 ♀'s ~~one~~ at same time
but distance too far to be sure.
Moved accross, closer to main ~~one~~ grainery tree.
9:20 ?/Mt | ?/rd-wt [2136]
10:10 Walt ~~saw~~ saw 2333, 2332
10:20 ?/mt | ?/dgr-rd [2333]
11:02 dgr-rd/? | dgr/? [2333]
Breeders males and other breeder ♂ never seen.
Birds spending some time in bottom of canyon - possibly
in sycamore.
11:05 End Obs.
19:00 Watched to roost from accross valley to N.
Birds (2) last seen on east side of grainery. (18:45)
Unable to see where they went to roost. Probably
3 birds in terr. - saw one fly to grainery, than two
more shortly later, but had lost track of first.

15 April — Watched to roost. No birds seen to go to either
of two trees above main grainery.

11 May — 10:10 No body seen in a hole.

8 June — ~~15:10~~ 14:30 checked holes in main granary - no
one observed. Watched from west side on hillside. -
Hear birds to N. of granary. Ind flies from granary
to dead tree N of granary located close to top of ridge. (200 m)
(200m from granary)

94 HAYDOCK, JOSEPH

MELANERPES FORMICIVORUS

OK CORRAL — HINHR

8 June — 16:00 Ind. flew from main granary up canon about 400-500 m.'. Started to fly back but I lost track of him/her.
16:20 End obs. Checked tree 200m N of main granary - one yucky hole - but worth checking??

10 June — 10:15-11:15 Birds spending most of their time in bottom of canon near large sycamore. I was not observing from where I could see this tree, but no evidence of nesting (i.e. carrying food) was observed.

14 June — 10:50 - checked holes - nobody seen - some stores remaining in both granary trees.

30 June — 10:55 Hello at several holes brought no response

16 July — 9:50 - Checked holes in trees on both hillsides - No body seen. - Some stores remaining

14 Aug — 9:00 - Nobody seen in a hole. 50% of main granary has fallen (with a few acorns remaining). Still a few acorns remain in what remains of granary trees.

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MELANERPES FORMICIVORUS

	OK CORRAL	HNHR
April 1	10:00 - Saw several birds; nobody in a hole - Some stores remaining.	
May 3	19:00 - Roost watch - No birds seen.	
JUNE 1	20:00 - Roost watch - Birds (3 or so) roosted in tree next to main granary tree.	
JUNE 6	11:15 - Checked roost hole. Nobody seen. Fair amount of acorns remaining.	
13 JUNE	11:00 - Sit down to observe for breeding activity. 11:30 - End Obs. Nobody seen.	
24 JUNE	11:10 No body seen.	
10 AUG	16:30 - checked holes - Nobody seen. Some acorn stores remaining.	

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MELANERPES FORMICIVORUS

OK CORRAL — HNHR

8 April — 12:00 - Checked holes. Nobody seen in a hole. No acorns in granary. Heard one bird as I entered territory.

21 April — Nobody seen in a hole

12 August — 7:00 - No birds seen or heard. No new acorns in granary.

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* 1997 *

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3 April — 10:15 - Checked holes in granary tree and in tree above granary tree - No birds seen

10 April — 17:30 - Open 2 holes in tree up canon from granary tree - found 2 eggs.

15 April — 11:30 - 4 eggs - Ⓘ 26.1 X 19.1

24 April — 14:20 - 3 babies, 1 egg. largest baby 11.0g. Not sure if egg will hatch or not - check again.

26 April — 12:30 - Still one egg remaining - took from nest.

16 June — 10:15 - Bird in hole ~2 feet below hole for 1st spring nest this year.

19 June — 9:00 - 4 babies 3.5 - 7.0g. No eggs remaining Lots of acorns remaining

9 July — 11:10 - 3 babies. Fairly small, but healthy.

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MELANERPES FORMICIVORUS

DARK HALLOW HNHR

12 April 9:50 - No birds seen.

14 August 9:10 - No birds seen, No stores.

1995

1 April 9:50 - No birds seen, No acorn stores.

6 JUNE 11:20 - No birds seen, but fairly new hole in tree closer to OK corral (on side away from OK corral).

24 JUNE - No birds/acons.

1996

2 April 3:05 - No birds seen.

1997

3 April 9:55 - No acorns stored, No birds seen.

1998- 1999- Territory not used.

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MELANERPES FORMICIVOROUS

LOWER PRAIRIE HE — HNHR

19 April — 3 eggs. Walter opened cavity.

1995

1 MAY — (AM) Checked hole that Jim observed bird in - nothing found.

15 MAY — 9:00 - Checked holes - Nobody seen.

1996

11 April — 14:15 - No birds seen. No acorns in granary by road. No acorns in old granary (close to MPHF)

23 MAY — 15:10 - See obs. for MIDDLE PRAIRE. - The males from Lower prairie have returned home (they ~~moved~~ ~~been~~ to LPHF last year) and are now apparently attempting to breed with mom! - yes it is possible INCEST

15 August — 7:50 - Nobody seen in a hole but there was bird on top of the tree along the road. (Heard MPHF bird up the hill at the same time).

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MIDDLE PRAIRIE HF — HNHR

18 June — 18:00 Banded / bled 5 nestlings with Laura. Plenty of stores remaining.

1995

10 April — 18:30 Arrive to do roost watch. Need to catch 1533 for blood sample. No bird seen in a hole on arrival. Not much luck with roost watch. Peter thinks 1 bird may have entered hole on E side of lower (granary) tree, near top of limb.

14 April. — 18:30 Reset ambush (Walt set earlier in the day) Pete watches. and reports that no birds roosted in either ambush hole.

16 April — 10:00 - Bird in hole when I arrived. Marked egg (3)

1 MAY — (AM) - 2 nestlings (~1-2d old), 1 egg (bad).

10 May — 9:00 - Set ambush ~~for~~ at nest. I want to get 1533 (B♀) and 2076 (H♂) for blood/DNA.

10:30 - Returned to blind to wait for 533 or 2076 ~~to~~ to feed. 1614 seen; 2336 seen.

Caught 1533 - replaced bands - Δ'd to: * black-white / Black m / dgreen. took blood/DNA sample

11 MAY — 15:00 - Set ambush to try for - 2076 - (L-green / M D-blue-yellow / L Pink)

Bird not seen during 1.5hr watch.

23 MAY — 15:30 - Banded / bled 2 nestlings with Walt.

2598: m / Red Mauve-white / Mauve-red 2599: black / red-white(N) black-yellow / m

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MELANERPES FORMICIVORUS

MIDDLE PRAIRIE HF — HNHR

11 April — 14:15 - Checked for nesting. Nobody seen. No good acorns (only old shells)

17 April — 17:00 - ~~Checked~~ Put up one feeder in tree above nest tree (the one that you can get to by walking a branch). After putting up this feeder. I noticed a bird in the nest hole (of the above nest tree) so I decided to wait before putting the other feeder up.

18 April — 13:00 - Checked nest - nothing inside. No bird seen when I arrived. LISA put up feeder in this tree. (2nd feeder for group).

19 April — 15:00 Checked feeders. One nearly full; the other empty.

23 MAY — 15:10 · Bird in hole - Last years nest hole. Wolf checked.
3 eggs: ① 24·1 x 20·4 ② 24·1 x 20·3
③ 23·1 x 19·4 ● (Eggs numbered)

24 MAY — 6:40 — Obs. for egg laying (or tape) 4th egg laid by 1533

27 MAY — 15:15 - Bird in hole.
④ 24.5 x 20.25 Still 4 eggs:

5 JUNE — 11:15 - Still not hatched. (11d after LED was June 4)
Eggs look odd - Rather than a pure white appearance they are somewhat ~~[illegible]~~ blotching looking.

6 JUNE — 19:20 - Arrive to see if anyone is brooding eggs through the night. Nobody seen entering hole by 20:00 Possible that bird was in hole already, but I doubt it

7 JUNE — 8:00 - Bird in hole when I arrived. Still no hatching — Took egg # 1. Placed egg in incubator in LAB.

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MELANERPES FORMICIVORUS

MIDDLE PRAIRIE HE — HN HR

1 JUNE 9815 - (Continued from prev. page). It seems like none of the eggs will hatch, however, we will leave this egg in the incubator for a couple of days to check to see if it hatches.

10 JUNE 8:30 - Opened egg from incubator - There is an embrio - Probably about 1 week old, but long dead.
11:00 - Collected 3 remaining eggs from nest. They were cool - apparently no longer being incubated and no bird in hole when I arrived.

15 August 7:40. Checked the usual holes including UPHF holes. Nobody seen in a hole. Heard birds in UPHF trees

1997

21 April 16:30 - Open new hole in tree located on UPHF territory (Middle prairie uses LPHF, MPHF and UPHF now) Set ambush. It would be nice to catch anybody as we been having bad luck catching birds here. There is an unbanded bird (HY) and we want to catch the BY to start a power struggle and/or the BO's to paint them to do nest guarding observations
19:30 - Yet again, another failure with ambushing - Nobody in the hole.

13 MAY 6:30 - 8:30. Observed for evidence of nesting. Nothing remarkable seen - They were spending some time to the E of central part of terr. (next ridgeline over)

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Melanerpes formicivorus

MPHF — HASTINGS

13 MAY (observation & nesting continued.) But some times they traveled all the way over to the W side of terr., as well as down to LPHF trees along the road. Saw ~~orange/?~~ ? (1962) 2 males seen, but unable to ID either (presumb. 1962 + P2076)

16 MAY 12:30 - 5 eggs - incubated. ♀ -

20 MAY 2:30 - 3 babies, 2 eggs; largest baby 12.5g. took both eggs??

6 June 1:45. - 3 dead babies - died recently (within last day) All heads/brains eaten by something - Looks gruesome.

6 July 10:30 - 2 babies - each ~13g. No eggs remaining. Lots of acorns remaining

1998

11 MAY 10:50 - 4 eggs. Early incubation. ♀ 25.3 × 19.8 Lots of acorns remaining.

16 MAY 12:45 - checked lower PHF for birds in holes - Nobody seen

21 MAY 13:20 - 4 babies largest one is 15.5g - 3½ old

7 June 12:30 - Banded 3 babies, all healthy. # 3026-3028 Some acorns remaining.

10 July 12:30 - Some acorns remaining. No birds seen. Apparently no 2nd nest.

1999

7 June 14:00 - 4 babies and 1 egg (prob will not hatch) Largest baby about 30g, 1 is only about 15g

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MELANERPES FORMICIVORUS

UPPER PRAIRIE HF — HWHR

11 April — 14:15 - One bird seen in dd nest tree (poss. that this bird is from MPHF, of course). No acorns in granary.

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MELANERPES FORMICIVORUS

STROMBERG — HNHR

10 April — 16:30 - 2 fresh eggs. Bird in hole when I arrived.

3 MAY — 16:00 - Captured unbanded B♀ on nest. #2557
M / LL-blue-Lgreen
D-green / D-green.

5 MAY — 10:30 Captured unbanded B♂ on nest.
Red white (W) / (Red white (W)
Yellow / metal.

13 MAY — 12:50 Captured another unbanded B♂ on the nest.
D blue-White / White-D blue
M / Rad D blue.

15 MAY — 4:00 - Attempted to catch remaining unbanded ♂ by pulling ambush to try to trap however was roosting with the nestlings. Unfortunately the ambush ~~broke~~ failed. I don't think an adult was in the cavity anyway. So this means there is still one unbanded bird here. He has a broken bill (about ⅓ of the end of the upper mandible).

15 MAY — 6:00 - Banded and bled 3 healthy nestlings #2806-2808

20 JUNE — 9:00 - It's a second nest! - with 1 baby, hatched this morning, plus 3 more eggs ① 25.6 x 19.4.

23 June — 9:00 - 2 babies now, 2 eggs. Set ambush to catch Unb. ♂

29 June — 15:00-17:00 - Attempted to catch NOBA ♂. He never came to nest

30 June — 5:00 - Another attempt to catch NOBA ♂.

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MELANERPES FORMICIVORUS

WESTGATE — HNHR

16 April

8:40 Began observation to check nesting activity.
Plenty of acorn stores remaining.

9:20 Moved closer - too far to I.D. (overcast day)
I did see one unb.

9:30 Unb ♂, main grainery.

9:40 green rump seen, main grainery

9:40 dgreen?/mt / ?/? , main grainery

10:10 mt/~~wt~~-dk (thin) ♀ } poss same

10:11 or-wt/bk / ? ♀ } bird } pinkish rump?

10:20 OR/? (or-dk??) / mt/or-dk ♀ [2218]
↖ (or purple?)

10:35 ~~lt-bl-yellow/lt-blue~~ ? / ? / ? ♂

10:35 lt-bl/Yellow/lt-blue ♂

10:45 4 birds top of grainery - some aggression between 2

11:05 unb ♂ (seen several other times too)

11:40 End obs.

29 June

9:30 Hello? nobody answered

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MELANERPES FORMICIVORUS

WESTGATE — HNHR

April 13 - 2:00 check holes (with Jim, Peter Walt) nobody seen in a hole.

April 17 10:00 - Helped Walt to check (potential suicide) hole. No eggs found.

April 18 11:05 - Female in hole (The one Walt went to ayer)

1996

April 7. 17:00 - checked holes in Sycamore tree by road. No body seen.

April 11 13:15 - Checked holes in Sycamore tree. by road. Nobody seen in a hole. One bird flew from nearby tree. No acorns remaining in granary.

April 21 -13:00 - Checked holes, One bird seen in tree (sycamore) but she did not seem to have come out of a hole.

~~GMAX 15:45 - Banded and bled 6 healthy ba~~

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MELANERPES FORMICIVORUS

	GATE	HNHR
30 JUNE	1815 - 4 eggs ~~early fresh~~. Close to hatching	
	① 25.7 x 19.1 ③ 25.3 x 19.5	
	② 26.0 x 18.7 ④ 25.4 x 18.7	
5 July	1200 - 3 nestlings + one ~~dead~~ chick.	
	① 13.0 ③ 16.5	
	② 13.5 ④ [2544]	

1995

April 12	16:00 - Set Ambush at hole in tree by stop sign for night ambush
	19:00 - 5 birds go to roost in this hole; ambush works - get 5 birds: 1513, 1571, 2251, 2464, 2463. 1571 ~~was~~ was important to catch for blood/DNA sample - So things went well
20 JUNE	19:45 - Attempt to see who is roosting with babies
	19:48 - red/m Enters/leaves - 1min later. [2482]
	19:57 - ??? Enters - stays - went in quickly and nearly dark (I was not using flash light - expecting early entry)

96 J. HAYDOCK

MELANERPES FORMICIVORUS

	GATE	HNHR
April 7	16:15 - Checked holes in Sycamore by Main road. No birds seen in a hole.	
April 11	13:15 - Checked holes in tree at STOP sign. Nobody seen. No acorns remaining in granary.	
April 17	17:00 - Put up two feeders. 1 in granary next to stop sign, the other in nearly dead tree in open field across stream. (School Hill west is control non-supplemented group)	
MAY 31	12:30 - BANDED 4 nestlings with WALT.	
August 12	9:20 - Hear screaming babies in hole. Walter checked and finds 2 nestlings that are about 14 days old.	
August 14	9:30 - Climbed up tree to check on nestlings and to show them to my family (Chris, Laura, Grandma and mom). Still 2 healthy nestlings.	

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MEGANERIES FORMICARIUS

	GATE	HNHR
16 MAY	6 eggs. Early incubation ① 24.9 x 19.7 Bird in hole when we arrived. (2nd nest in same hole as 1st spring nest)	
27 MAY	16:30 - 4 babies 19, 17, 17, 6 g. 2 eggs (infertile) Took both eggs. Small baby look healthy and seems to have been fed.	
13 June	8:40 - Banded and bled 3 healthy babies w/ May.	

1998

MAY 18	12:30 - No birds seen in a hole. They don't have a second nest yet. Since it seems possible they will, mate guarding observations should be done on this group.
MAY 19	10:00 - One fresh egg. Same hole as first nest.
JUNE 4	14:40 - 3 babies - No eggs. (There were 4 eggs, but Walt took one) Largest baby is 11.5 g.
JUNE 22	12:50 - Banded

MELANERPES FORMICIVORUS

Pipeline. HNHR

21 April 09:30 - Walk. Opened new hole in dead sycamore by stream. 2 eggs - ① 26.0 × 19.3.

30 April 12:30 5 eggs now, so last egg date is 24 April.

11 MAY 16:15 3 babies 38-42g, 1 egg (infertile)

30 June 7:00 - No birds seen in any holes. Some acorns remaining in granary.

7 July 3 eggs 25.1 × 18.7 hole in granary tree 16:45

14 July 10:00 - 2 babies ~ 7g + 1 dead (3g). Took tissue from dead baby (#2930)

4 Aug 15:00 Banded and bled 2 babies with Erin. They weighed 45 and 70g. The 45g nestling looked and smelled pretty pathetic, but perhaps will make it to fledging after his/her big brother/sister fledges and stops bullying him/her. A few acorns still remaining.

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95
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MELANERPES FORMICIVORUS

WOLFPACK — Hastings

14 July — 12:10 - Checked several cavities. No body seen.

1995

13 April — 1:50 - Checked ~~several~~ holes nobody seen.

1996

19 April — 16:00 - Set up 2 feeders to start supplemental feeding. Control group (non-supplemented) is BLOM! No birds seen.

18 August — 6:45 - checked for birds - no body seen

1997

Sept 15 — 18.30 - 3 birds roost in hole found by Walt on oak tree along road (Arnold side) and accross from fallen valley oak.

Sept 16 — 11:40 Attempted to climb to hole, but decided branch was too dead (one very small twig w/ leaves on it) to risk climbing. Bird was in hole when we arrived.

94/95 JOSEPH HAYDOCK

MELANERPES FORMICIVOROUS

ROAD 1 — HNHR

May 9 — Who is going to roast with the nestlings??
Light-dark / LBlue = [1573]? Another ♂ [prob 1575] also came to hole while 1573 was looking out. These 2 birds said hello to each other, but [575] left. without entering hole.

23 June — 10:30 — No bird flew from hole but I here nestlings!
15:50 - 2 nestlings - green - 55g ; NOBA 40g

5 July — ~11:00 ~ 2 nestlings — bled / banded.

14 July — 12:15 - Heard birds in area - nobody Identified

1995

April 13 — 1:45 - checked holes. nobody seen.

May 5 — 13:00 - 4 eggs, incubating. Measured (1) 25.6 x 20.1 - Bird in hole, eggs warm. 2 other birds flew from upper hole. (Cloudy/rainy day).

May 12 — 15:00 - 4 nestlings. (Largest one 17g.)

96 / 97 J. HAYDOCK

MELANERPES FORMICIVORUS

ROAD 1 — HINHR

19 April 16:45 - Checked holes in small dead trunk along dry wash. No birds seen.

21 April 12:00 - checked holes. One bird seen outside upper hole in small dead trunk along wash.

15 August 8:50 - Nobody seen in a hole. Heard a couple of birds in granary tree on W side of road.

22 August 8:30 - Nobody seen in a hole.

* 1997 *

4 April 15:30. Open new hole in big dead sycamore.
① 24.65 x 19.6 ② 24.45 x 19.1 ③ 15.8 x 19.9 (remaid egg)
Found 3 eggs, including one runt egg. Look fresh.

10 April 13:30 - Female in hole when I arrived - 6 eggs now.

June 11 9:30 Bled 2 small nestlings; banded w/ hatching band

June 12 16:30 - Transferred their 2 abandoned babies to A1.
Nobody had visited nest or fed for the entire day. Possibly due to Kiethand hurt filming feeding (setting up to film), but this apparently incestuous group could just be weird enough that successful nesting is easily disrupted.

June 30 6:50 - No birds found looking out of a hole. Some, but not a great deal, of acorns remaining.

94 HAYDOCK, JOSEPH
95

MELANERPES FORMICIVOROUS

ROAD 3 HNHR

17 April - Bird flew from upper hole in oak located 10m E of road.

23 June 10:40 Checked holes - nobody seen.

25 June 12:30 - Checked holes - hello.?? - Nobody seen

14 July 12:15 - Checked holes - nobody seen in a hole - bird seen in this years nest tree.

1995

April 13 1:45 - Checked holes. nobody seen.

April 19 19:30 - Roost watch with Jim & Pete. - 2-3 birds roost, in last years nest hole. The rest probably roosted in hole in sycamore (15m to S).

April 22. 12:00. Arrive to set ambush. Find ~~water in~~ last years nest hole full of water. How could they have ~~roosted~~ here.?? on the 19th. (No significant rain since)

April 23 19:45 - Roost watch. Jim report 5 (poss. 6) birds roost in sycamore.

April 25 9:30 - Set ambush at sycamore (No eggs)

April 26 5:00 - Caught 4 birds. Did not catch NOBA

Caught 2411, 2412, 2415, 2146

May 6. 10:00 - 7 eggs, including 1 runt egg. Early incubation Measured 1 egg: 25.8 x 18.7. Open hole - fairly deep; had to make 2 ~~holes~~ doors. Bird in hole when we arrived.

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MELANERPES FORMICIVORUS

ROAD 3 HNHR

MAY 23 14:00 - Checked nest - 4 nestlings; largest one 42g, smallest 14g. Took blood from smallest nestling since it is unlikely to survive. (ID # 2594 w/ white hatching band.)
Walt set ambush (for unbanded ♀(s))

MAY 25 14:30 - Set-up to attempt capture of unbanded ♀
15:15 - Caught Unb ♀ and 2146 (IN HOLE when ♀ entered)
Took blood from both
New bird (#2609) banded as: White / M / Dblue-white / Dblue-Lblue

MAY 26 15:00 - Jim reports he saw NOBA this morning. (N) (sex unknown)
Set ambush to attempt capture NOBA.
see D-blue-white (N) / D blue Not on field list
? / ? ⇒ (1672) Prob Nat. (1451)
~~Also~~ Also see 1633, 2413, (possibly

MAY 27 8:15 - Another attempt to catch unbanded bird.
9:45 - End obs. Did not see NOBA.

MAY 28 13:00 Another attempt to catch NOBA. (2nd breeding ♀)
Birds seen ~~2412~~ 2412, 2413, 1672, 1633
16:15 - End obs. Did not see NOBA.

MAY 29 19:30 - Roost watch at nest tree. One bird roosted in nest hole; another in hole facing road located ~~25~~ 1 m above nest hole. A third bird thought about roosting in upper hole, but decided not to do so.

JUNE 4 (PM) Jim reports that he did not see an unbanded bird during watch - so no 2nd ♀ breeder?

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MELANERPES FORMICIVORUS

ROAD 3 HOHR

5 JUNE 11:00 - Banded/bled 3 nestlings with Walt.

1996

12 April -16:30 - Set Ambush to catch BM's for painting.

13 April 6:00 - Ambush ~~boo~~ failed because line broke.

21 April 12:00 - Checked holes. Nobody seen in a hole.

8 May 9:30 - Checked upper hole in blue oak in open area (10 m from road). No eggs, but bird did come and complain when I climbed.

July 28 17:00 Set ambush to try to catch breeding female. (2nd try - see Walts notes for Previous ambush ~~that~~ we caught a fledgling, so they had a nest)

July 29 5:00 Caught 2609 in upper hole of sycamore tree located on road. Nobody else in this hole or lower hole (also with ambush) so we are still not sure who the breeding female is for this group.

15 August 7:00 - Checked around territory for possible roost holes as nobody roosted in either of the two trees they have usually roosted in. (sycamore and oak tree). The hole in the sycamore along the stream bed seems to be open and usable again (Walt had blocked it with some branches a week or so ago).

22 August 8:40 - Nobody seen in a hole.

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MELANERPES FORMICIVORUS

R3 HNHR

21 April 12:10 - 5 eggs, incubated - should hatch soon. One of the 5 eggs is a runt egg ① 20.3 x 14.8 (taken out) ② 26.2 x 19.3

27 April 11:30 - 4 babies; no eggs remaining; largest baby 13.5 grams All about the same size, so they should all survive.

15 MAY No birds seen in a hole

30 June 6:30 - No birds seen in any hole, but several birds seen in lower nest tree. A few acorns remaining in lower nest tree / granary.

12 July 7:00 - A missed nest! ~~Fledling~~ ~~took~~ Nestling looking out of hole. Look ready to fledge.

11:00 - Climbed to hole - No babies left, but it was certainly another nest. They must have fledged in the last 4 hours.

94 JOSEPH HAYDOCK

MELANERPES FORMICIVOROUS

SCHOOL HILL — HNHR

13 April — 16:00 Checked with Walt. Cavity in tree on east side of territory 5 babies 4-5d old (School hill "C" west hole)

16:45 checked other holes in terr, no answer

23 June — 10:00 Checked several holes for renesting attempt. Nobody found. Block has fallen from nest hole for this year

27 June — 18:00-19:00 Observed for evidence of renesting [2381] ○ Blue/L-green | red-white In tree on westside, foraying Adult ♂. In one of the trees in enclosure.

28 June — 9:00 - Replaced block of nest hole. - Began Observations for renesting attempt. 9:00-10:30 Nothing seen.

29 June — 7:15 checked several holes in trees in enclosure- nobody seen.

14 July — 10:40 checked several holes - nobody seen

15 July — 9:40 - checked most holes in territory - no bird seen in a hole. 2 birds flew from tree in enclosure.

3 Aug — 19:30. Roost watch. I heard at least one bird to NW of enclosure, this individual flew to tree in enclosure that Mary was watching. Mary reports 10! birds roosted in this tree (located on west side of enclosure). Mike reports 1 bird went to roost in tree to SE (this years nest hole).

4 Aug — 16:30 Set ambush at this years nest tree. Watt set ambush at tree in enclosure. We hope to catch Gnds juviniles.

94 / 95 HAYDOCK

MELANERPES FORMICIVORUS

SCHOOL HILL — HNHR

5 Aug — 4:00 – No birds in ambush that I set (in nest tree) Walts ambush in tree in enclosure yielded 14! birds @ in one hole! including 4 NOBA juveniles Banded & bled juveniles. Bled all others. Caught 1903, B385, 2065, 2210, 2137, 2208, 2209, 2380, B381, 2385. Newly banded juvs are. 2555 – RED/YELLOW / RED-LPINK/M; 2556 – LPINK/DBCVE / LPINK/M; 2557 – LBCUE-BLACK/LB=BLACK / M / BCAKL; 2558 – DGREEN-CLR/D / C

1995

6 April — 12:45 – Checked holes – Nobody seen. Lots of acorns remaining

11 April — 16:00 – Walt and I set ambushes at 4 holes in trees in enclosure. We are trying to catch 1426, one of the breeder males because a new blood/DNA sample is needed (the sample we have has DNA that is severly broken)

12 April — 5:00 – Catch 3 birds in upper tree of exposure. Did not catch 1426.

15 MAY — 16:00 Banded/bled 3 nestlings:

2580: D-green/orange // D-green / M // orange

2581: L-green // O-blue-yellow / M // D-blue/yellow

2582: White/D-blue // white / PINK // M

29 May — 10:00 – See bird at (not in) rest hole. Juv. looking out of rest hole.

96 J. HAYDOCK

MELANERPES FORMICIVORUS

SCHOOL HILL — HNHR

4 April — 11:30 - Checked several holes. No birds seen. Some acorn stores remaining in granary at bottom side of enclosure.

4 May — 9:30- 3 just hatched (7.5g) + 1 more hatching bill about half out.

6 MAY — 10:30 – 3 babies now. So I guess the 4th ~~died~~ died shortly after hatching.

25 MAY — 14:30 Banded / bled 3 nestlings with LISA. G.

1997

18 MAY — 6:50- Looking for signs of nesting ....

♂ M / D-blue / Red / Red (2677)

♂ ? ? / m / Orange(?) (2580)

♂ ? / m / red-white (2381)

- Fledgling !! - trying to get food from a male (unidentified) — So 1st nest missed ☹

9:20- End observations.

Did not see a ♀ - perhaps she is spending time incubating at 2nd nest?

4 June — 17:00- 4 eggs, fairly fresh but prob. complete. Bird in hole.

(13 June) — ⌀ 25.7 × 19.9

15 June — 9:05- 3 babies, 1 egg largest baby 7g. All look cute & Puppy.

4 Oct — 5:30 - Ambushed with Walt. See his notes for more info.

94/95 HAYDOCK, JOSEPH

MELANERPES FORMICIVORUS

SCHOOL HILL WEST — HNHR

13 April 16:30 Checked main tree, several cavities - no answer

23 June 11:00 Checked ~~several~~ two holes - nobody seen

26 June 11:15 Checked two holes in nest tree - possible that a bird flew from upper hole

29 June 7:00 Checked two holes in nest tree - nobody seen

14 July 10:55 - Checked two holes in nest tree - bird flew from tree - worth checking again - maybe just climb and chak.

15 July 10:15: Checked upper hole in main granary tree - Nothing there; bottom of hole very uneven. No bird seen in hole.

1995

6 April 11:45 - Checked holes. Nobody seen. Lots of acorns remaining.

12 MAY 18:00 - 4 eggs. Warm-/mid-incubation
Measured ① egg: ~~2~~ 22.9 x 19.9

23 MAY 12:00 - Nothing left. Few if any acorns in granary.

29 MAY 10:45 - Seems to be a power struggle going on - Lots of WHKA's, drumming, etc. - Count at least 7 birds in area, but ~~@~~ I don't have my scope to identify them.

29 MAY 14:30 - Start obs. of power struggle again - Main activity is just uphill from granary.

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SCHOOL HILL WEST — GRANGER

29 MAY — Obs. of power struggle continued:

♀ M / Mauve-black [2502] west gate.

♂ M / rw (W) / Mauve [2506] "

♀ White-red / M ?

♀ L blue / Lgreen [2505] W. GATE
? / ?

♀ Red / orange [2507] W. gate.
? / ?

- So west gate ♀'s are ground, but Wolf report both school hill breeders are ground (in their granary) so this looks to be an attempted coup rather than a traditional power struggle.

30 MAY — 9:00 - Obs. of power struggle continued:

The following individuals are observed.

♂ M / ?
Ltgreen / Lt blue / Ltblue-Lgreen [2288] (A) SHW
(located just North of granary)

♀ RED / orange
WR / (Mauve-Dblue)? = ~~2507~~ ? [2507] ~~defin~~ seen later well.
(WR / metal)
located just uphill from granary.

Obs. 2288 with ♀'s (prob W gate). Seem to be getting along OK.

M / ~~B black mantle~~ mauve-Dblue? = [2506]
by (W) / Mauve @ [2502]
orange / (Mauve-Dblue
M / (split)
Lt Blue / Lt-green [2505] W GATE
? / ?

} All just above granary tree.

- 1608 seen (BOR SHW)

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MELANERPES FORMICIVORUS

SCHOOL HILL WEST — HNHR

30 MAY — 10:00 Power struggle/coup obs. continued. In general activity is similar to yesterday.— West gate birds are located just up hill from the granary - I have not seen them go to the granary today — And are flying about and calling frequently. Little aggression seen, except for a few perch displacements.
orange / lt blue orange - [1998] (SHW, BF.) Fly catching just up hill from granary - Did not interact with WG ATE birds =

1996

4 April — 11:45 - Checked to see if bird was in cavity. No birds seen. No acorn stores remaining

4 May — 9:40 - Checked nest hole - Nobody seen.

20 MAY — 17:30 - Bird in hole; 3 eggs - fresh. No measured.

25 MAY — 11:52 - Checked eggs. No eggs found. Depredation :

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MELANERPES FORMICIVORUS

SCHOOL HILL WEST — HNHR

18 MAY — 11:30 - 4 babies about the same size; largest 18g. One unhatched from "runt" egg - fully developed, but failed to hatch.

20 MAY — 8:30 - Arrive to attempt to catch unbanded BP. ♂ LL green / DBlue / DBlue

11:30 - No luck - only saw BP ♂ 2288

22 MAY — 8:00 - Arrive to attempt to catch unbanded BP

11:00 Again no luck. BP ♂ 2258 ~~feed~~ ~~feed~~ fed about 12 times BP ♀ 2529 ♂ LPink / DBlue (red w/ white (W)) fed about 7 times! Both brooded nestlings for about 30 min. Unbanded ♀ never seen, so perhaps she is no longer around - wait until next watch or 2 is done to check if unbanded is gone or/and do a roost watch.

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MELANERPES FORMICIVORUS

ARFTOO HNHR

May 9 14:30 3 nestlings, 1 unhatched egg (infertile) 26.0x18.3

① 14.9g YELLOW

② 17.7g L PINK

③ 15.9g BLACK

Above measurements made by Walt.

29 June 8:00 - Checked this years nest hole with Walt. Nobody in hole. Walt took blind to road.

1995

May 14 12:00 - Checked holes. Nobody seen no stores in granary (located to W)

1996

1997

15 April 6:30 - 4 eggs, incubated ① ~~26.4x19~~ 23.4x18.1

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MELANERPES FORMICIVOROUS

BLACK OAK — HNHR

14 June — 15:45 checked holes - nobody seen.

23 June — 16:45 Checked holes for renest attempt - nobody seen

28 June — 19:20 - Checked holes for renest attempt - nobody seen

29 June — 9:45 - Checked holes for renesting - hellow? - nobody seen

1995

31 MAR — 12:00 - Some stores in roost tree. Nobody see in a hole

21 April — 3:10 - Checked holes. Bird in hole (last year nest, central trunk, fairly low)

11 May — 10:00 - 4 healthy nestlings close to banding age. Lots of acorns remaining in granary.

16 May — 11:30 - Banded and bled 4 nestlings with Walt.

21 JUNE — 13:30 - checked holes. Nobody in a hole. Some work being done on holes facing PHOBO, in nest tree.

1 Oct — 1:15 - A few acorns in granary by nest tree. No birds seen.

96/97 J. HAYDOCK

MELANERPES FORMICIVORUS

BLACK OAK — HNHR

3 April 16:15 - Nobody seen in a hole.

20 April 12:20 No birds seen. A few acorns in granary below nest (apparently being shared with PHOBO birds - Joshua)

2 MAY 11:00 - Nobody seen in a hole

5 MAY 9:45 Nobody seen in a hole.

14 MAY 13:00 - Nobody seen in a hole

20 MAY 19:05 - Bird in hole facing away from BIANCA - Possible nest or just where they are roosting tonight?

19 July 7:25: Heard some birds as I approached. No acorns in other granary

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1997

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3 April 14:30. Nobody seen, but lots of acorns

14 April 12:40 - Nobody seen in a hole

10 June 10:45 - Nobody seen in a hole. Still plenty of acorns

7 July 9:15 - Nobody seen in a hole. Still plenty of acorns

19 Aug ~~7:30~~ - Several birds seen, some chasing - Minor power struggle in progress to replace breeder? Some acorns still remaining.

94 JOSEPH HAYDOCK

MELANERPES FORMICIVORUS

PHANTOM OF BLACK OAK — HNHR

12 Aug 17:00 Check cavity before setting ambush—find 2 nestlings about 1 week old!

16 Aug 19:00 - Roost Watch. 1 bird roosts with nestlings

18 Aug 19:00 Roost Watch— Again miss attempt to determine which ♂ breeder in roosting with nestlings. Saw ♀ 2476 enter & leave just before ♂ entered to roost with nestlings.

19 Aug 15:00— Attempt to set ambush for day time capture of ~~un~~NOBA ♂ breeder. String (topgall up rope) broke! and I did not bring weight to throw string over limb again. I will try again soon---.

22 Aug 19:00. Roost Watch. Who is roosting with the nestlings? See male in nest (HO) when I arrive. I don't think this bird left. ~~254~~[2454] (set unknown) ~~left~~ Enters nest and stays. Another bird comes in late and stays. Could have been unbanded—I did not see bands, but I did not get a good look.

24 Aug 15:00- Set ambush for attempt at catching Unb ♂ breeder While he feeds at nest.

15:10- I'm in blind waiting....

16:25 [2476] arrives/feeds 1x—finally _ 1:10 min after start!

17:20- Have seen 2474, 2455, 2476 feed, but Not NOBA

25 Aug 11:30 - Set ambush for another attempt. I am now in the blind waiting for NOBA. NOBA came to hole twice, both times w/o food. Never entered hole - Saw 2476, 2474, 2455, 2456 feed several times each. [2562]

26 Aug 14:30 - Find 1 dead nestling - died recently, took tissue sample.

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MELANERPES FORMICIVORUS

PHANTOM OF BLACK OAK — HNHR

28 Aug — 19:00 Roost watch. phantom of black oaks is living up to their name. Mike and I watched for them in trees that were once part of Blackoak. We saw and heard nothing. Mary reports the same from her observations at the nest hole.

29 Aug — 19:00 Yet another roost watch results in negative data - where 'o' where is the phantom of black oak

1995

31 MAR — 11:58- Saw a few birds. No bird seen in a hole. Lots of acorns stored (in lower Black Oak-trr.)

21 April — 3:45- Checked holes in southern tree (last years late nest). Nobody seen,

3 May — 11:00 - Birds seen in tree, but nobody seen in a hole.

11 May — 10:10 - 12:10 - observed for nesting activity - never saw anybody. Heard somebody to SE of nest tree.

30 MAY — (PM) 1 2 babies, 2 eggs. Oldest baby hatched (yesterday)? - Setupambush to catch NOBA.

2 JUNE — 15:30 - Attempt to catch NOBA(s). Reset ambush. Yes - caught NOBA ♂ and 2454 ♀. Took blood & banded NOBA - #2625 yellow/metal / Yellow-Lblue / Yellow-Lblue.

8 JUNE — 15:00 - Another try to make sure there is not another NOBA bird here....

Lgreen-Dblue / Dblue ♀ not
Dblue-yellow(N) / m ≠ on kits
(cedar).
→ Lgreen or Lblue

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MELANERPES FORMICIVORUS

PHOBO HNIHR

JUNE 6 (continued) ~~L~~green-Dblue / DBlue / M / DBlue-Yellow (N) [2214?] from? LA2?

Caught @ 2400 [from LA2] - took blood.

So - 2214 from LA2 almost certainly is the other bird I saw ⇒ Lgreen/DBlue / M / DBlueYellow (N)

JUNE 21 13:20 - Banded/bled 2 nestlings with Wolf. Made some acorns in granary next to Blk Oak

1 Oct 1:10 - No acorns in granary below black oak nest tree. No birds seen

1996

April 3 16:15 - Nobody seen.

April 20 12:20 - No birds seen again today.

2 MAY 11:00 - Possible bird in hole. Saw bird fly from near hole as I approached

5 MAY 9:45 - Nobody seen in a hole.

14 MAY 12:55 - Nobody seen in a hole

20 MAY 19:10 - Roost watch; nobody seen. No bird seen in a hole

19 July 7:30 - No birds seen or heard. No acorns in Blackoaks lower granary

9 Sept 9:00 - Opened new hole in mostly dead tree below BLOK nest tree. Find 4 babies, largest one ~14g - So about 3 days old ⇒ hatched on the 6th of September. Also 2 eggs, including a runt egg still in nest took both of them ① 24.25 x 18.1 ② 19.7 x 15.3

97 HAYDUCK

MELANERPES FORMICIVORUS

	PHOBO	ANHR
3 April	15:20. Nobody seen in a hole, Lots of acorns.	
14 April	12:50 - Nobody seen in a hole	
1 MAY	15:30 - Bird in hole; hear babies after it leaves. Same hole that I thought bird came out of about 5 days ago (during roost watch - no notes taken) New hole ~~bet~~ in poison oak surrounded tree located just below hole used last year for nesting.	
2 MAY	13:30. Finally made it through all the poison oak (cut most of it away) and opened hole. 7 babies !! 10g to 23g. Only the 1 10g bird is significantly smaller; the rest are about the same size (~28g)	
17 MAY	Banded	
10 June	9:45 - No birds seen in a hole - Still plenty of acorns	
13 June	10:30 - Two ~~fledl~~ fledglings flew from nest hole located in (black oak?) towards brush. (~~under~~ hole opens downward). I hope these were PHOBO fledglings and not some other group (i.e. SOBO)	
7 July	9:20. Nobody seen in a hole. Still plenty of acorns	
18 Aug	7:40. Several birds seen. Some acorns remaining.	

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MELANERPES FORMICIVORUS

	SOBO	HNHR
31 MAR	12:05- Saw a few birds. No acorn stores.	
	No bird seen in a hole - Saw bird with band.	
26 April	14:30 - Checked holes. Nobody seen.	

1996

94 JOSEPH HAYDOCK.

95

MELANERPES FORMICIVOROUS

ARNOLD 1 — ANHR

20 April — 10:50 started obs. to determine nest location.
11:50 End obs. No evidence of nesting.

23 June. — 19:30 Attempt with to observe who is roosting — To close, I am scaring them away — will try again.

28 June — 19:30. Mosquitos!! Tried to determine which ♂ roosted — Nobody went to roost

17 July — 18:40 - Plenty of acorns. Nobody seen.

1995

31 MAR. — 11:05 - No bird seen in a hole. Lots of acorns. Saw several birds - Also saw a couple of birds on N. side of road.

21 April — 3:30 - Walt observed 2 birds leave new hole-checks

31 MAY — 9:15 - Nest ambush set for attempt to catch birds for DNA/blood. Need blood from 1222, 1027, 1212, 2034, 1026 (listed in order of importance..

11:45 - End attempt. I was able to catch and take blood from 1027. I am fairly sure I saw 1222, but he did not enter the hole (possible that I ~~got~~ ~~1222~~ confused 2462 as 1222.

1 June. — 8:45 - Another attempt to catch 1222 - Yes - caught him and took blood. I will now try to catch 1212 or 2034. - Yes caught 2034.

11:00 - End ~~of~~ observations.

95/96 HAYDOCK

MEGANERPES FORMICIVORUS

ARNOLD I HNHR

2 JUNE 13:30 - Set ambush to attempt capture of 1212 and 1026. Caught 1212. Did not try to catch 1026.

3 JUNE 11:00 - Set ambush to catch 1026 - Yes! Caught ~~Re~~ Archer. Also saw a bird that was RED/METAL ? I ?

9 JUNE 13:00 - Banded/tied 6 nestlings with Watt. 2629-2634

1 Oct 12:40 - A few acorns in old nest tree. Heard a bird.

1996

April 20 16:30 - Nobody seen in last years nest hole.

April 22 17:00 - Set ambush to catch breaders for painting (want to do mate guarding observations)

April 22 19:15 - One bird goes in upper hole; 4 others in lower hole. I decided to delay ambush because of slight suspesion that there may be eggs(s) in upper hole (I could not reach the bottom, but hole looked poor for nesting since it did not have flat bottom)

April 23 18:00 reset both ambushers to try again - Checked both cavities for eggs (with mirror) - No eggs

April 24 5:00 - Yes caught just the birds I wanted - the single female breeder plus the 3 male breeders.

♂ 1026 - green ♂ 1027 - L blue / D blue

♀ 1212 - yellow ♂ 1222 - reddish-orange

96 HAYDOCK

MELANERPES FORMICIVORUS

ARNOLD I — HASTINGS

April 25 — 11:20 – Male guarding watch. Birds in grapes

B ♀ 1212 (yellow paint) –
B ♂ 1026 (green paint) –
B ♂ 1027 (blue paint)
B ♂ 1222 (reddish-orange)
} Obs. on tape.

H ♀ 2034 – yellow/m / Red-Orange(N) / L-green ✓ seen

H ♀ 2462 – L-blue Lgreen / m / D blue-Yellow(N) / Red LPk (N) ✓ seen

H ♂ 2439 – Black-Lgreen / Yellow / m / Black — Not seen

See: ♀ Dblue-yellow(N) / ? (N) (2462)

♀ Yellow / m / ? / L-green (2034)

♂ – ? / ? / m / dark light (blue?) (1027) paint job not very good.

1:50 – End obs –

April 26 — 7:00 Male guarding observations continued.

10:00 End obs.

MAY 2 — 7:20 – Started male guarding obs. at A1 again.

– Ended obs. They do not seem to be guarding

MAY 5 — 7:15 Started male guarding obs. Breeding males and females are staying together, but very difficult to observe. They are spending most of the time foraging on on young leaves/buds in oaks/thick folage.

8:45 – End observations

MAY 6 — 7:20 – started male guarding observations.

8:30 – End obs. do not seem to be male guarding. Breeding ♀ seen alone for 8 mins.

MAY 9 — 7:20: Started another attempt at a male guarding watch.

8:01 – They are still not male guarding.

96 HAYDOCK
97

MELANERPES FORMICIVORUS

ARNOLD 1 — HASTINGS

MAY 14 : 13:05 - Nobody seen in a hole

19 July 7:20 - Heard a couple of birds. No acorns remaining.
No birds seen in a hole.

16 August No birds seen in a hole.

1997

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3 April 15:25 - No birds seen in a hole. Lots of acorns

14 April 13:00 - No birds seen in a hole

21 April 11:30 - checked holes - Nobody seen in a hole

4 MAY 10:00 - Bird flies from new hole in granary tree;
Hole is located on downhill side of tree in smallish downward running branch and the hole faces the road.
Hear babies begging when bird leaves!!

6 MAY 9:30 - Open hole indicated above. Found 2 babies at 31 & 29g ?(10a)
+ 3 unhatched eggs ① 27.0 x 19.1

15 MAY Banded 2 babies (very small, likely that they were not ~~yet~~ 21 days old as predicted from weights on 6 MAY - Both healthy & well fed.

10 June 9:30 - Bird in hole - Likely 2nd nest. Lower hole in dead snag that requires 40ft ladder.

12 June 11:00 3 babies. Largest one 29g. All look healthy and about the same size.

13 June 17:00 - Placed the 2 abandoned babies from RI in nest - both have hatching bands.

7 July 10:10 - Nobody seen in a hole. Still plenty of acorns

94 HAYDOCK

95

MELANERPES FORMICIVOROUS

KEEP OUT — FINHR

9 May — ~~15:00~~ ~~Tested~~. ~~No eggs~~ (checked/opened by Walt)

15:15 – 4 eggs –

① 24.0 × 19.3 ③ 23.8 × 19.1

② 22.2 × 19.1 ④ 23.1 × 19.7

(No development – all infertile?)

29 June — 8:10 – Checked holes in tree trunk – nobody seen

18 July — 18:50 – Plenty of acorns. No birds seen in a hole.

1995

31 MAR — 11:10 Tour with Walt, Jim Petr. Lots of acorns, No bird seen in a hole.

21 April — 12:00 – Checked holes. Nobody seen

14 MAY — 12:30 Bird in hole; In tree just below parking area; broken-off branch.

16 MAY — 9:00 – Opened hole – Nothing inside – Bird seen on outside looking in hole as I approached.

9 JUNE — 14:30 – Observed for finding nest/evidence of breeding.

29 JUNE — 14:30 – Checked holes, nobody seen. Some acorns remaining in main granary.

1 Oct — 12:15 – A few acorns in main granary. No birds seen

96 J. HAYDOCK

MELANERPES FORMICIVORUS

KEEP OUT HNHR

April 3 3:50 - No birds seen. No acorns in main granary

April 20 11:00 - Set up 2 feeders in main granary (keep out sign) tree. (Control non supplemented group is BIANCA). No birds seen in a hole

April 23 5:00 - Power struggle at keep out

♂ RED/M (LAZ 2399 ?)

? D-BLUE-YELLOW(N) / Y

♂ Y- / Y- (Both old, female)
M / ?

♀ M / ?
Dgreen / Dgreen
? / ?

? M / Dblue-Yellow (N)

? M / Red-black (LAZ 2646) ?
? / ?

♂ W/Y
? / ? ← (M/Dblue-Yellow (N)) ?? (LAZ bird?) 2645

♂ M / Orange (LAZ 2213) ?
? / ?

? M / Dblue-Lblue (FAAR 2602)
? / ?

♀ Dark color ~~orange~~ / orange-dark
M / ?

6:00 - Left to get camera, scope, etc.

7:12 - Caught 2602

9:30 End Observation.

14 MAY 13:15 - Nobody seen in a hole

97 HAYDOCK

MELANERPES FORMICIVORUS

KEEP OUT — HASTINGS

15 April — 5:00- Roost ambush. Caught and painted three birds in single roost hole; the other 3 birds in a group likely roosted together in another hole in same dead snag located towards junk yard from granary. Saw 3 birds fly as I started climbing snag to remove birds, but not sure if they came from the same hole. 2448 B♀ ⇒ pink; 2399 B♂ ⇒ green 2645 B♂ ⇒ yellow paint.

16 April — 6:00 - Arrived to observe for possible egg tossing with National Geographic photographers.

6:25- 6:30 - 2602 B♀ - observed along w/o any other birds w/in 15 meters of her.

6:31 - 2448 B♀ - observed along - but she then flew to join others - including males.

7:00 - 2399 and 2448 have been sitting next to each other for 20 min! - Pink (2448) then left and green did not follow. Intruders seem to be coming in but, I have not been able to identify the birds that seem to be the intruders. There has been some chasing of birds from the territory.

7:18- Again I see Pink (2448) and green arrive together in granary tree, but green (2399) leaves w/o pink.

7:30- End Observations.

21 April — 11:30- checked holes - Nobody seen in a hole.

9 MAY — 13:50. Checked holes - Nobody seen in a hole.

14:50- Bird in hole in dead snag, upper hole 4 eggs

① 24.7 x 19.7, All marked w/ green spot.

97 J. HAYDOCK

MELANERPES FORMICIVORUS

KEEP OUT HNHR

MAY 18 18:00 4 babies, all healthy. Largest one 22g. Keith and Kurt will be filming feeding here. (They also did the nest check & weighted the babies)

MAY 23 Nest destroyed by some sort of predator. Hole open back of nest where Kiethand Kurt had placed a cardboard/foil door to allow for filming.

JUNE 17 8:15 - Opened new hole in tree located toward CA2 from turnaround/parking area. 4 eggs, incubated ① 26.1 x 20.4

June 20 8:30 - ~~Did~~ Does not seem to have hatched yet, but I did not climb up to hole

June 22 18:00 - 3 babies, no eggs remaining. hatched today.

7 July 10:05 - Can hear babies. Still plenty of acorns

14 July 9:30 - Banded and bled 3 healthy babies, but they are somewhat small for their age (as with other 2nd nests this year).

16 Oct 13:20 - checked nest tree, Nobody seen yet. Acorns (old only) in granary.

MELANERPES FORMICIVOROUS

ARNOLD S. HINHR

6 June — 15:00 checked holes in main nest tree - no birds seen.

12 June — 19:30 Walt sets flap type ambush on upper nest hole of main tree. Unfortunately they don't go to roost in this hole

14 June — 14:45 Walt fixed ambush in position to let birds adjust to its presence.

23 June — 19:30 - Roost watch. 1 bird may have used nest hole - went to roost late - difficult to observe

14 July — 19:30 Roost Watch. ⓑ with Laura - Unable to see where they roosted

17 July — 19:30 Roost watch - unable to determine where they roosted - no birds seen.

11 Aug — 19:30 - Roost watch. Did not see any birds go in a hole; but used flashlight to find a bird looking out of a hole at the top of a broken off limb (only about 20cm in diameter) in forest to Southeast nest tree.

15 Aug — 19:15 - Roost Watch - 3 birds leave hole - 1 returns - So could be 3 birds in hole - will try ambush (with pole)

16 Aug — 5:00 - Ambush works, but only 1 bird in hole [2443]

17 Aug — 19:15 - Mike reports 2 birds ~~go~~ go in hole to SW of gramerry tree. Will try pole ambush

18 Aug — 5:00 - Ambush ~~successful~~, but both birds banded. [2083], [2440] - bled / took DNA from both.

24 Aug — 5:00 - Ambush again at the same hole. (Mike reported that 3-4 birds went in last night) Caught 3 birds [2082], ~~[2541]~~ [2441] ♀, [2561] - newly banded. Red-Lblue / Lblue-Red ♂ / Red.

95 HAYDOCK

MELANERPES FORMICIVORUS

ARNOLDS

31 MARCH — 11:05 Tour with Jim, Peter, Walt - lots of acorn No birds seen in a hole.

21 April — 2:00 - Checked holes. Nobody seen.

24 MAY — 13:30 - Banded/bled 2 nestlings (2600; 2601) with walt. 2600: black-wht(N) / m / Red / Black

2601: D-blue-wht(N) / Orange / Orange / m

29 JUNE — 14:30 - Checked holes; nobody seen. Some acorns remaining in main granary

1 October — 12:10 - A few acorns in main granary. No birds in main granary

96 J. HAYDOCK
97

MELANERPES FORMICIVORUS

ARNOLD S. HNHR

3 April 3:55 - No birds seen. A few acorns remaining in granary below main granary.

20 April 11:30 - No birds seen. Still a few (~20) acorns in granary below main granary.

2 MAY 11:00 - checked holes. Nobody seen in a hole.

14 MAY 13:15 - No body seen in a hole

16 August No birds seen in a hole.

* 1997 *

3 April 14:40 - No birds seen in a hole, but lots of acorns

9 MAY 13:55 - No birds seen in a hole.

24 MAY 9:30 - 10:50 - Observed for signs of a nest. Nothing remarkable observed.

10 June 10:35 - I hear babies - they seem to be in new hole located further up cañon (away from KOUT) in tree surrounded by poison oak in dead, small limb (hole noticed by Walt w/ birds) several weeks ago)

12 June 10:30 - Opened hole enough to know for sure they are baby woodpeckers in hole, but I did not count them. My guess is that they are ~ 1 week old.

7 July 10:00 - Did not check holes; but they still have plenty of acorns

14 Oct 13:15 - All quiet. Lots of acorns in granary

94
95

JOSEPH HAYDOCK

MELANERPES FORMICIVOROUS

	LAMBERT	HNHR
14 June	14:45 Checked cavities – nobody seen. Plenty of stores remaining.	
23 June	17:00 - Checked holes for ~~re~~nesting attempt – Nobody seen.	
28 June	19:15 – Checked holes with "hello", ~~opened lower hole – nothing~~ nobody seen	
29 June	8:10 checked holes with "hello" - Opened lower hole – nothing found. Plenty of stores in fallen tree.	
8 July	18:55 – On tour w/ Walt, Mary and Mike. – Plenty of acorns in fallen tree – No birds seen in a hole.	
12 Aug	19:30 – Roost watch.	

1995

31 MAR	10:55 - Tour with Walt, Jim & Peter Lots of acorns. Saw 1-2 birds – Nobody in a hole.
21 April	14:00 - Checked holes. Possible bird in hole in main tree upper hole, west side.
29 JUNE	17:30 Checked holes; nobody seen. Lots of acorns remaining in main granary
1 Oct	12:15 . ~~Quite a~~ A fair amount (30-40% full) of acorns in fallen granary. A few in nest tree. No birds seen. One part (branch) on keep out side) is 30-40% full of acorns.

96 J. HAYDOCK

MELANERPES FORMICIVORUS

LAMBERT — HNHR

3 April - 4:00 - Saw 2 woodpecker fly from last years nest tree. No bird seen in a hole. A few acorns remaining in granary on ground.

20 April - 11:30 - Nobody seen in a hole.

2 MAY - 11:00 - Checked holes. Nobody seen

5 MAY - 10:30 - 4 eggs!! - fresh, ~~but~~ Saw bird in hole

Measured 1 egg: 25.95 x 26.0

9 MAY - 8:36 - NO BIRDS APPEAR TO BE IN NEST HOLE UPON OUR ARRIVAL.

8:48 - STILL 4 EGGS IN HOLE! EGGS ARE WARM / INCUBATED. ~~WEIGHT~~ MEASUREMENT OF EGGS:

- 25.5 x 20.3

17 MAY - 10:30-4 BABIES ⇒ 4g., 9g., 15.5g., 14g

22 MAY - 16:00 - 3 babies now. Added 2 from plaque.

#2674 and 2675

4 JUNE: - 10:15 - 1 ~~seen~~ gopher snake now! No babies.

16 August - No birds seen in a hole

97 HAYDUCK

MELANERPES FORMICIVORUS

LAMBERT HNHR

21 April 11:20 - Checked holes - Nobody seen.

1 MAY 14:30 - Bird in hole; traditional tree; new hole just below upper used daring previous years.

4 MAY 9:30 - Opened hole indicated above. As it turns out upper hole connects with this one! but now it is much easier to get to bottom of hole so opening it was not a complete waste of time.
5 eggs found. 4 appear incubated, but the 5th look fairly fresh suggesting either it is the last laid or unfertile and is not developing
① 23.9 x 19.4.

9 MAY 13:57 3 babies, 1 egg piped & hatching, Last egg must be infertile. Largest baby weighs 9g.

7 July 9:55 - Nobody seen in a hole. Still plenty of acorns

1 Sept 9:30 - Nobody sign of nesting activity.

14 Oct 13:20 - Nobody seen. No sign of nesting. Acorns remaining in granary.

94 JOSEPH HAYDOCK
95

MELANERPES FORMICIVORUS

FANNY ARNOLD — HNHR

14 June — 15:30 Checked holes—nobody seen. Some stores still remain (even though they don't have much of a granary)

14 July — 19:00. Checked holes. No body seen. Still some stores

1995

31 MAR — 11:15 - Saw one bird. Did not check holes.

21 April — 13:30. Bird in hole. Walt checked. Nothing inside.

26 April — 13:30 - Check 2 holes. Hole ~~at~~ top of rope has 5 eggs Measured 2 egg ① 21.0x16.7 (count)
② 25.6x19.7

3 May — 10:00. 5eggs - warm.

11 May — 9:20 - 4 nestlings + unhatched runt egg. (largest nestling 32.5g.

24 MAY — 14:30 - Banded/bled 4 nestlings w/ Walt.
2602: m / Dblue-Lblue / Dgreen / Dgreen
2603: Yellow / m / red green / red green
2604: ~~Dblue-yellow(N) / Lblue~~ m / Dblue
2605: black / white / black / m

29 JUNE - Checked holes; nobody seen. Some acorns remaining in granary located towards (keep out). (dead tree)

1 Oct. - 12:25 - A few acorns in granary next to nest tree. No birds seen. Heard one bird when leaving.

96 J. HAYDOCK

MELANERPES FORMICIVORUS

FANNY ARNOLD — HNHR

3 April — 4:15 – No birds seen; but only looked from across valley.

20 April — 11:45 – No birds seen in a hole. Some acorns remaining.

2 MAY — 11:10 – Nobody seen in a hole

9 MAY – 10:29 – / BIRD FLEW OUT OF NEST HOLE UPON OUR ARRIVAL.

– 10:33 – 4 EGGS FOUND IN NEST. MEASUREMENTS:

EGG 1 → 25.4 x 19.3

EGG 2 → 26.55 x 19.25

Egg freshly laid.

14 MAY — 12:35 – Still 4 eggs. Incubated. bird in hole

17 MAY — 11:10 – 4 EGGS. INCUBATED. BIRD IN HOLE

24 MAY — 15:00 – 2 nestlings about the same size

Measured ① 24g. No eggs remaining.

7 JUNE — 10:20 – Banded / bled 2 nestlings with Walt

16 August — No birds seen in a hole.

97 HAYDOCK

MELANERPES FORMICIVORUS

FANNY ARNOLD — HNHR

3 April	15:00 - No birds seen in a hole
12 April	9:45 - No birds seen in a hole.
18 April	8:00 - No birds seen in a hole.
10 June	10:40 - No birds seen in a hole.
7 July	9:50 - No birds seen in a hole. Still plenty of acorns in their meager granary.
1 Sept	9:35 - No sign of nesting activity

95 HAYDOCK
96
97

MELANERPES FORMICIVORUS

UPPER ARNOLD 2 HWHR

31 MAR 11:20 – No birds seen. No acorn stores.

21 April 10:00. No birds seen. No acorns

1 Oct 12;45 – A very few acorns in granary. Heard one bird closeby and toward Fanny Arnold

1996

3 April 4:20. No birds seen: No acorns

20 April 12:00 – No birds seen.

1997

14 April 13:40 – Walt sees bird in hole; checks nest and finds eggs –

18 April 8:10 – check for clutch size — 6 eggs now.

24 April 10:50 – Measured a egg ① 25.05 x 18.8

2 MAY 14:45 – 5 babies – 4 at about 19 g the 5th only 5 grams, but hanging in there. – poor bird; No eggs.

11 MAY 12:10 – Having set up a blind and set the ambush 45 min ago, I returned to attempt to catch unbanded breeder female. ⇒ Failed she left while I pulled the ambush

12 MAY. 7:00 – Another attempt to catch unb. female Yes – got her!

20 MAY Banded 3 babies – All look good

10 June 10:15 – Bird may have flown from hole in same tree as 1st nest, but hole that faces downward toward bitter draw

MELANERPES FORMICIVOROUS

LOWER ARNOLD 2 — HNHR

16 April — 16:45 4 babies - 3-4d old reported by Walt.

14 June — 15:10 Walt reports 4 warm eggs - None really look like they are going to hatch.

23 June — 17:30 - 4 eggs, Warm? 1 crushed in on one side - no developement - rotten, yuck. tossed out of hole.

29 June — 8:45 - 3 eggs - cold - removed.

18 July — 19:10 - No body seen. Lots of acorns remaining.

14 Aug — 18:30 - Roost watch. - At least 5 birds roost in tree located about 150ft W of nest tree.

1995

31 MAR — 11:25 - Lots of acorns. Relatively high activity. Saw some chases. - possible power struggle

3 JUNE — 1:00 - 4 babies, 1 egg (Does not look good) Largest baby is 13.5g.

1 Oct — 12:50 - lots of acorns in main granary. No birds seen.

96 J. HAYDOCK

MELANERPES FORMICIVORUS

LOWER ARNOLD 2 — HNHR

3 April — 4:30 – No birds seen. Lots of acorns remaining in main granary.

20 April — 12:10 – No birds seen.

2 MAY — 11:15 – No body seen in a hole

5 MAY — 9:45 – Bird in hole!! Underside of dead limb that needs ladder to check

6 MAY — 10:00 – 5 eggs (?) difficult to reach. fresh; poss. laying. 24.85 x 19.60

17 MAY — 11:35 – 2 EGGS COLD : BOTH BAD (PARTIALLY DEVELOPED?)

2 BIRDS ⇒ 20g, 15g

22 MAY — 17:30 – 2 nestlings; added 2 more from PLAQUE

(1) 23.35 x 19.95 (2) 25.55 x 20.65

(Measured eggs that did not hatch.)

4 JUNE — 11:00 – Banded 4 nestlings with Walt – so they all made it – The 2 LAZ babies plus the transfers from PLAQUE

7 JUNE — 12:00 – Arrive to find nestling still alive that LISA had found at 11:00 on ground below nest. It was bird 2672. Opened nest and found 2 live nestlings and nestling 2685 dead in nest (no apparent reason for its death). Put 2672 back in nest.

19 July — 7:55 – 2 birds flew from granary. A few, (very few) acorns remaining in granary.

16 August — 12:00 Nobody seen in a hole.

97 J. HAYDOCK

MELANERPES FORMICIVORUS

LOWER ARNOLD 2 — HNHR

3 April — 15:10. No birds seen in a hole

12 April — 10:00 No birds seen in a hole

21 April — 10:30 No birds seen in a hole.

1 MAY — 15:10 - Possible that bird was in hole in first tree along fence (when coming from A1); (new hole.)

2 MAY — 16:30 - Opened new hole indicated above (MAY1); Hole is facing other nest tree (traditional?) and located bout 15ft above the ground. Found 5 eggs; they look well incubated ♀ 27.7 × 18.7.

9 MAY — 13:20 - 5 babies; largest 24g, but all nearly as big. One egg remaining that apparently failed to hatch because the shells from other eggs were stuck over the making it necessary for the hatching bird to go through at least 2 shell layers. When I pulled off the outer half shell, the inner shell was peeped open in a small cycle, but the fully developed hatchling was very dead and rotten.

14 MAY — 12:30 They all died ☹. No obvious reason - perhaps No ♂ incubated after a set ambush on may may 12

24 MAY — 9:00 - New nest in traditional nest tree along fence line. in hole facing towards UAF, down hill branch. 7 eggs - fairly fresh. ♀ 26.3 × 19.9

1 June — 10:00 - Still 7 eggs. Bird in hole when I arrived.

4 June — 17:30 - 4 babies 4-14g, smallest takeout; the other 3 are about the same size. (#2878 is runt nestling). No eggs remaining, so I guess they all hatched.

10 June — 11:00 Caught 1 of 2 unbanded female breeder.

94/95 HAYDOCK

M. FORMICIVORUS

BIANCA HNHR

18 July 19:15 - Checked holes/acorn stores on tour with Walt, Mary and Mike. Plenty of stores remaining.

1995

MAR 31 11:50 - Some acorns gateres, but not a lot. No birds seen in a hole.

21 April 3:00 - Checked holes. Nobody seen

11 May 10:50 - 11:50 - Observed to try and find nest. Saw 3 individuals in granary; heard birds on west side of terr. Also saw birds fly from granary to nest side of territory. Checked for holes in west part of territory.

Last 12:55 - A few acorns in dead trunks by nest tree in canon. Saw several birds at LAZ side of territory.

96 HAYDOCK

97

MELANERPES FORMICIVORUS

BIANCA — HWHR

3 April	4:32 – No birds seen. No acorns, but I did not check careful (I did not go over to granary)
20 April	12:15 – No birds seen.
2 MAY	11:00 – Nobody seen in a hole
5 MAY	9:45 – Nobody seen in a hole
14 MAY	12:45 – Nobody seen in a hole
20 MAY	19:10 – Nobody seen in a hole; no birds heard while doing roost watch at PHOBO.
19 July	7:45 – No birds seen. No acorns remaining
16 August	10:00 No birds seen.

1997

12 April	10:30 – Started obs. to see if they are mate guarding. 12:00 – Ended obs. Birds seem to be spending time towards LAZ, but I can't see very well from my vantage point. Possible nest in tree on ridge leading from Bianca to LAZ.
18 April	8:30 – There are babies. In above tree. Hole too difficult to get to/open without ladder (i.e. I climbed up and started to open the hole, but the dead limb near broke – I heard a loud crack and quickly got back down)
21 April	– Walt opens hole (using ladder) to check on babies.
10 June	11:00 – No acorns in traditional granary, but some acorns remaining in new granary in this years nest tree.
7 July	9:30 – Still some acorns in nesttree of this year.

Pairs + Helpers (♂♂, ♀♀)

Remove ↓

- Plague (6,2)
- Knoll (3,2)
- ♀ 1500 (2,1)
- 1800 (6,2)
- ♂ Blom3 (1,3)
- Murf (2,2)
- CV1 (5,2)
- ♀ OKCorral (1,1)
- MPHF (6,4)
- (♂,♀) LPHF (0,1)
- ♂ Gate (0,5)
- Road1 (7,4)
- ♀(Nope) Road3 (3,3)
- ♀ SHWest (1,0)
- ♂ ARF, too (1,3)
- ♂ BlackOak (3,4)
- ♂,♀? Lambert (0,1)
- FAAR (1,1)
- LA2 (3,4)

Multiple Co-breeders (♂♂, ♀♀)

Remove ↓

- Refutel (2,1)
- H-B (2,1)
- Blomtwo (3?,1)
- CVCerande (2,1)
- SHill (2,1)
- Phobo (2,2)
- A1 (3,1)
- KeepOut (3,1)
- ArnShwartz (2,1)
- LHay (1,2)
- Gazebo (1,3)
- Larb (1,2)

Questionable

- ↓ Chongo (Not sure)
- Buckeye (FE?)
- Blomone (FE?)
- CV2 (No ♀?)
- WGate (No ♂?)
- ♀ → Wolfpack (200??)
- 2?? BIANCA (comp under)

Wolfpack R3

Pairs + Helpers (♂♂, ♀♀)

Remove ↓

- Plague (6,2)
- Knoll (3,2)
- ♀ 1500 (2,1)
- 1800 (6,2)
- ♂ Blom3 (1,3)
- Murf (2,2)
- CV1 (5,2)
- ♀ OKCorral (1,1)
- MPHF (6,4)
- (3,♀) LPHF (0,1)
- ♂ Gale (0,5)
- Road1 (7,4)
- ♀(Not♂) Road3 (3,3)
- ♀ SHWest (1,0)
- ♂ ARF, too (1,3)
- ♂ BlackOak (3,4)
- ♂,♀? Lambert (0,1)
- FAAR (1,1)
- LA2 (3,4)

Multiple Co-breeders (♂♂, ♀♀)

Remove ↓

- Refutel (2,1)
- H-B (2,1)
- Blomtwo (3?,1)
- CVGerande (?,1)
- SHill (2,1)
- Phobo (2,2)
- AI (3,1)
- KeepOut (3,1)
- ArnShwartz (2,1)
- LHay (1,2)
- Gazebo (1,3)
- Larb (1,2)

Questionable

↓

- Chongo (Not sure)
- Buckeye (FE?)
- Blomone (FE?)
- CVZ (No♀?)
- WGate (No♂?)
- ♀ → Wolfpack (2♂♂??)
- 2♀♀ BIANCA (Comp unclear)

Wolfpack R3